

## **Flame Retardants - References and Further Reading (by Author)**

### **Alongi J., Han Z., Bourbigot S. (2015):**

Intumescence: Tradition versus novelty. A comprehensive review. Science DirectElsevier Science Ltd.. pp.

### **Alongi J., Horrocks R., Carosio F., Malucelli G. (2013):**

Update on Flame Retardant Textiles: State of the Art, Environmental Issues and Innovative Solutions. Smithers Rapra. pp. 1-319

### **Andersson P, Simonson M, Rosell L, Blomqvist P, Stripple H. (2003):**

Fire-LCA Model: Furniture Study. SP Swedish Testing Institute, Boras; Report 2003:22. pp.

### **Anonymous (2005):**

Decabromodiphenylether: An Investigation of Non-Halogen Substitutes in Electronic Enclosure and Textile Applications. Lowell Center for Sustainable Production University of Massachusetts Lowell. pp. 1-69

### **Apte V. (2006):**

Flammability testing of materials used in construction, transport and mining. CRC Press. pp. 1-443

### **Babrauskas V, Harris R, Gann R, Levin B, Lee B, Peacock R, Paabo M, Twilley W, Yoklavich M, Clark H. (1988):**

Fire Hazard Comparison of Fire-Retarded and Non-Fire-Retarded Products. Fire Retardant Chemicals Association. Fire Measurement and Research Division. pp. 1-85

### **Babrauskas V, Simonson M (2007):**

Fire behaviour of plastic parts in electrical appliances - standards versus required fire safety objectives. Fire and Materials, Vol. 31. pp. 83-96

### **Babrauskas V., Gann R., Grayson S. (2008):**

Hazards of Combustion Products. The Royal Society, London. Interscience Communications Ltd.. pp. 1-355

### **Barbosa V, Guillaume E, Sainrat A. (2008):**

Etude sur les effets de l'ignifugation de certains meubles remourrés dans le cadre d'un projet de réglementation relative à la sécurité incendie: Extrait de la partie 2 - Evaluation des risques santé et sécurité. LNE Laboratoire de Trappes. Fiche No. 233/2007, Project 27EAF6707. pp. 1-34

### **Barontini F, Cozzani V (2006):**

Formation of hydrogen bromide and organobrominated compounds in the thermal degradation of electronic boards. J. Anal. Appl. Pyrolysis. pp. 41-55

### **Beard A (2008):**

Schutzziele im vorbeugenden Brandschutz und Maßnahmen zu deren Erreichung - Versuch einer Kosten-Nutzen-Betrachtung. VFDB Essen. VFDB Jahresfachtagung 27. - 30.04.2008. pp. 184-198

### **Beard A (2008):**

Flame Retardants and the environment: From risk assessment to REACH, from blacklists to green procurement. Rapra. ADDCON 15-16.10.2008, BarcelonaSmithers Rapra. pp.

**Beard A, Marzi T (2006):**

Sustainable Phosphorus based Flame Retardants: A case study on the environmental profile in view of European legislation on chemicals and end-of-life (REACH, WEEE, RoHS). CARE Innovation Conference, Vienna, Nov. 2006. pp.

**Beard A., Angeler D. (2010):**

Flame Retardants: Chemistry, Applications, and Environmental Impacts. Wiley-VCH, Weinheim. Handbook of CombustionWiley-VCH. pp. 415-439

**Beard A., Döring M, (2008):**

Halogen-free Laminates: State of Play and Update on Recent Industry Activities. Electronics Goes Green, 7-10. September 2008. pp. 185-191

**Blomqvist P. (2005):**

Emissions from Fires - Consequences for Human Safety and the Environment. Department of Fire Safety Engineering, Lund Institute of Technology, Sweden. pp. 1-105

**Bourbigot S, Flambard X (2002):**

Heat Resistance and Flammability of High Performance Fibres: A Review. Laboratoire de Génie et Matériaux Textiles. Fire and Materials. pp. 155-168

**Brusselaers J, Mark F, Tange L. (2006):**

Using Metal-Rich WEEE Plastics as Feedstock/Fuel Substitute for an integrated Metals Smelter. Umicore, Plastics Europe and EFRA. pp. 6-18

**Bürgi D (2002):**

Organophosphate in der Innenraumluft. Friedli Geotechnik AG, für Bundesgesundheitsamt Schweiz. pp. 1-76

**Chen S, Ma Y, Wang J, Chen D, Luo X, Mai B. (2009):**

Brominated FR in Children's Toys: Concentration, Composition, and Children's Exposure and Risk Assessment. Environmental Science & Technology, Vol. 43, No.7. pp. 4200-4206

**Chinn H, Löchner U, Chen W, Yoneyama M (2014):**

Specialty Chemicals Update Program - Flame Retardants, IHS Consulting (former SRI), [www.ihs.com/chemical](http://www.ihs.com/chemical) pp. 1-185

**Chivas C., Guillaume E, Sainrat A, Barbosa V (2009):**

Assessment of risks and benefits in the use of flame retardants in upholstered furniture in continental Europe. Fire Safety Journal. pp. 801-807

**Covaci A, Gerecke A, Law R, Voorspoels S, Kohler M, Heeb N, Leslie H, Allchin C, De Boer J. (2006):**

Hexabromocyclododecanes (HBCDs) in the Environment and Humans: A Review. Environmental Science & Technology, Vol. 40, No.12. pp. 3679-3688

**de Wit C (2002):**

An overview of brominated flame retardants in the environment. Chemosphere. pp. 583-624

**Destaillets H, Maddalena R, Singer B, Hodgson A, McKone T. (2008):**

Indoor pollutants emitted by office equipment: A review of reported data and information needs. Atmospheric Environment. pp. 1371-1388

**Dolley P (2004):**

Flame Retardants and the EU Ecolabel - A report produced for the Department for Environment, Food and Rural Affairs - the UK Ecolabelling Competent Body. AEA Technology Environment. pp. 1-30

**Döring M, Diederichs J. (2007):**

Halogen-free Flame Retardants in E&E Applications. Forschungszentrum Karlsruhe GmbH. [www.halogenfree-flameretardants.com](http://www.halogenfree-flameretardants.com). pp. 4-30

**DTI (1999):**

A Guide to the Furniture and Furnishings (Fire Safety) Regulations. Department for Trade and Industry. pp. 1-30

**Dye J, Venier M, Zhu L, Ward C, Hites R, Birnbaum L. (2007):**

Elevated PBDE Levels in Pet Cats: Sentinels for Humans? Environmental Science & Technology, Vol. 41, No. 18. pp. 6350-6356

**Eljarrat E, Barcelo D. (2011):**

Brominated Flame Retardants. Springer. pp. 1-290

**EU Parliament and the council of the European Union (2012):**

Directive 2012/19 on waste of electrical and electronic equipment (WEEE). EU Parliament. Official Journal of the EU. pp. 38-76

**EU Parliament and the council of the European Union (2008):**

Regulation No 66/2010 on the EU Ecolabel. Europäisches Parlament. Official Journal of the European Union. pp. 1-19

**European Union (2003):**

Directive 2002/95/EC of the European Parliament and of the council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. Official Journal of the European Union. pp. L37/19-23

**European Union (2003):**

Directive 2003/11/EC of the European Parliament and of the council of 6 February 2003 amending for the 24th time Council directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations.. Official Journal of the European Union. pp. 42-45

**European Union (2003):**

Directive 2002/96/EC of the European Parliament and of the Council on waste electrical and electronic equipment (WEEE). Official Journal of the European Union. pp. L37/24-38

**Gallo E, Braun U, Schartel B, Russo P, Acierno D. (2009):**

Halogen-free flame retardant poly(butylene terephthalate) (PBT) using metal oxides/PBT nanocomposites in combination with aluminium phosphinate. Polymer Degradation and Stability 94. pp. 1245-1253

**Goodman P. (2008):**

Executive's Guide to Environmental Megatrends that will shape the future of the electronics industry. IPC Association. pp.

**Guillaume E, Sainrat A. (2008):**

Etude sur les effets de l'ignifugation de certains meubles rembourrés dans le cadre d'un projet de réglementation relative à la sécurité incendie: Partie 1 - Etat de l'art. LNE Laboratoire de Trappes. Fiche No. 233/2007, Projet 27EAF6707. pp. 1-54

**Gullet B, Linak W, Touati A, Wasson S, Gatica S, King C. (2007):**

Characterization of air emissions and residual ash from open burning of electronic wastes during simulated rudimentary recycling operations. J. Mater Cycles Waste Manag. pp. 69-79

**Gunga M, Wayne G, Landman A, Connolly G, McGuire A (2002):**

The case for fire safe cigarettes made through industry documents.  
Tobacco Control. pp. 346-353

**Hall JR, jun. (2011):**

The Total Cost Of Fire In The US. National Fire Protection Association. pp. 1-32

**Harper Ch. (2004):**

Handbook of Building Materials For Fire Protection. The McGraw-Hill Companies. RR Donnelley. pp. 1-978

**Harrad S, Abdallah M, Rose N, Turner S, Davidson T. (2010):**

Current Use Brominated FR in Water, Sediment, and Fish from English Lakes. . Environmental Science & Technology, Vol. 43. pp. 9077-9083

**Hartmann P, Bürgi D, Giger W. (2004):**

Organophosphate flame retardants and plasticizers in indoor air.  
Chemosphere Vol. 57. pp. 781-787

**Hester R, Harrison R. (2013):**

Chemical Alternatives Assessments. RSC Publishing. RSC Publishing. pp. 1-296

**Hietaniemi J, Mangs J, Hakkarainen T (2002):**

Fires originating from electric household appliances: An experimental and simulation study. Interflam 2001 Conference. pp.

**Hofmann A, Knaust C, Beard A. (2006):**

Modelling fire scenarios in residential buildings with respect to the benefit of smoke detectors and flame retardants. Flame Retardants 2006 Conference. Interscience. pp. 195-215

**Hörold S. (2008):**

Safety for thermoplastics. Specialty Chemicals Magazine, Vol. 28 No. 09. pp. 28-30

**Horrocks A. (2010):**

Flame retardant challenges for textiles and fibres: New chemistry versus innovative solutions. Polymer Degradation and Stability. pp. 1-16

**Horrocks A., Price D. (2008):**

Advances in fire retardant materials. CRC Press. Woodhead Publishing Ltd.. pp. 1-599

**Ihmels C, Dietz M. (2008):**

Halogen Free Flame Retardant Systems for Epoxy Based Printed Wiring Boards. Electronics Goes Green, 7-10. September 2008, Berlin. pp. 195-201

**Ikonomou M, Rayne S, Addison R (2002):**

Exponential increases of the brominated flame retardants Polybrominated diphenyl ethers, in the Canadian Arctic from 1981 to 2000. Environmental Science & Technology, Vol. 36, No. 9. pp. 1886-1892

**Illinois EPA (2007):**

Report on Alternatives of the Flame Retardant DecaBDE: Evaluation of Toxicity, Availability, Affordability, and Fire Safety Issues. Illinois Environmental Agency. pp. 1-80

**Ji K, Choi K, Giesy J, Musarrat J, Takeda S. (2011):**

Genotoxicity of Several PBDEs and Hydroxylated PBDEs, and their Mechanisms of Toxicity. Environmental Science & Technology, Vol. 45. pp.

**Kajiwara N, Noma Y, Takigami H. (2011):**

Brominated and organophosphate flame retardants in selected consumer products on the Japanese market in 2008. Journal of Hazardous Materials. pp. 1250-1259

**Kemmlein S, Hahn O, Jann O (2003):**

Emission of Flame Retardants from Consumer Products and Building Materials.. Reihe Texte 55/2003 Umweltbundesamt, Berlin, Germany. pp. 1-188

**Kemmlein S, Hahn O, Jann O. (2003):**

Emissions of organophosphate and brominated flame retardants from selected consumer products and building materials. Atmospheric EnvironmentElsevier Science Ltd.. pp. 1-9

**Kempel F, Schartel B, Marti J, Butler K, Rossi R, Idelsohn S, Onate E, Hofmann A. (2014):**

Modelling the vertical UL 94 test: competition and collaboration between melt dripping, gasification and combustion. Fire and Materials. pp. 570-585

**Kim J, Letcher R. (2010):**

Historical Contaminants, FR, and Halogenated Phenolic Compounds in Peregrine Falcon (Falco peregrinus) Nestlings in the Canadian Great Lakes Basin. Environmental Science & Technology, Vol. 44. pp. 3520-3526

**Klinkowski C, Burk B, Bärmann F, Döring M. (2015):**

Moderne Flammenschutzmittel für Kunststoffe. Wiley-VCH, Weinheim. Chem. Unserer Zeit. pp. 96-105

**Lassen C, Havelund S, Leisewitz A, Maxson P. (2006):**

Deca-BDE and Alternatives in Electrical and Electronic Equipment. Danish Ministry of the Environment. pp. 5-81

**Law R, Allchin C, Boer J, Covaci A, Herzke D, Lepom P, Morris S, Tronczynski J, de Wit C. (2006):**

Levels and trends of brominated flame retardants in the European environment. Chemosphere Vol. 64. pp. 187-208

**Law R, Kohler M, Heeb N, Gerecke A, Schmid P, Woorspoels S, Covaci A, Becher G, Janak K, Thomsen C. (2005):**

Hexabromocyclododecane Challenges Scientists and Regulators. Environmental Science & Technology July 1,2005. pp. 281A287A

**Leisewitz A, Kruse H, Schramm E (2000):**

Substituting Environmentally Relevant Flame Retardants: Assessment Fundamentals (English summary volume). Report UBA-FB 000171/1 Umweltbundesamt, Berlin, Germany. pp. 1-205

**Lemieux P Lutes C, Abbott J, Aldous K (2000):**

Emissions of Polychlorinated Dibenz-p-dioxins and polychlorinated Dibenzofurans from the Open Burning of Household Waste in Barrels. Environmental Science & Technology, Vol. 34. pp.

**Leonards, Pim (2013):**

ENFIRO European Research project final report. [www.enfiro.eu](http://www.enfiro.eu)

**Leung A, Luksemburg W, Wong A, Wong M. (2007):**

Spatial Distribution of Polybrominated Diphenyl Ethers and Polychlorinated Dibenz-p-dioxins and Dibenzofurans in Soil and Combusted Residue at Guiyu, an Electronic Waste Recycling in Southeast China. Environmental Science & Technology, Vol. 41, No. 8. pp. 2730-2737

**Levchik S V, Weil E. (2006):**

A Review of Recent Progress in Phosphorus-based Flame Retardants. Fire Sciences. pp. 345-364

**Levchik S, Hirschler M, Weil E. (2011):**

Practical Guide to Smoke and Combustion Products from Burning Polymers - Generation, Assessment and Control. SmithersiSmithers. pp. 1-227

**Levchik S, Weil E. (2004):**

Halogen-Free Printed Wiring Boards. BCC Stamford 2004 Conference. pp.

**Manchester-Neesvig J, Walters K, Sonzogni W (2001):**

Comparison of Polybrominated Diphenyl Ethers (PBDEs) and Polychlorinated Biphenyls (PCBs) in Lake Michigan Salmonids. Environmental Science & Technology, Vol. 35, No. 6. pp. 1072-1077

**Mark F (2002):**

Verwerten von Altkunststoffen aus E+E Auswirkungen und Folgen der neuen europäischen Elektro-/Elektronikschrottverordnung. KU Kunststoffe. pp. 22-27

**Mark F, Dresch H, Bergfeldt B, Dima B, Grütter W, Kleemann F, Kramer K, Lehner T, Vehlow J. (2006):**

Mitverbrennung von Reststoffen aus der Verwertung von Elektro- und Elektronik-Geräten im MHW Würzburg 2004. Müll und Abfall 1/06. pp. 27-34

**Marklund A, Andersson B, Haglund P. (2005):**

Organophosphorus Flame Retardants and Plasticizers in Swedish Sewage Treatment Plants. Environmental Science & Technology, Vol. 39, No. 19. pp. 7423-7429

**Martinez M. (2008):**

Dell Strategy for Reduction of Brominated Flame Retardants and Polyvinyl Chloride in Electronic Products. Electronics Goes Green, 7-10. September 2008, Berlin. pp. 201-207

**Marzi T, Beard A (2006):**

The ecological footprint of flame retardants: A case study. Specialty Chemicals Magazine. pp. 28-30

**Marzi T, Beard A (2006):**

The ecological footprint of flame retardants over their life cycle- A case study on the environmental profile of new phosphorus based flame retardants. Flame Retardants 2006 Conference. Interscience. pp. 21-30

**Mehran A, Wenning R (2002):**

The singificance of brominated flame retardants in the environment: current understanding, issues and challenges. Chemosphere. pp. 579-582

**Molyneux S, Stec A, Hull T. (2014):**

The effect of gas phase flame retardants on fire effluent toxicity. Polymer Degradation and Stability, Elsevier Science Ltd. pp. 36-46

**Morf L, Taverna R, Daxbeck H, Smutny R (2002):**

Umweltgefährdende Stoffe - Ausgewählte polybromierte Flammschutzmittel.  
Bundesamt für Umwelt, Wald und Landschaft BUWAL, Switzerland.  
Schriftenreihe Umwelt Nr. 338. pp. 11-19

**Moroose G. (2006):**

An Overview of Alternatives to Tetrabromobisphenol A (TBBPA) and Hexabromocyclododecane (HBCD). University of Massachusetts. pp.

**Müller R, Stopp V, Korzen M, Proschek P. (2009):**

Geändertes Prüf- und Beurteilungsverfahren für reaktive  
Brandschutzbeschichtungen nach ETAG 018-2. DIBt Mitteilungen 5/2009.  
pp. 144-148

**Müller R, Stopp V, Korzen M, Proschek P. (2010):**

Modified test and assessment methods for reactive fire protection systems in  
EN 13381-8. Steel Construction No. 4. pp. 243-247

**National Research Council (2000):**

Toxicological Risks of Selected Flame-Retardant Chemicals. National  
Academy Press. pp. 1-499

**NFPA (2011):**

Guide on Methods for Evaluating Fire Hazard to Occupants of Passenger  
Road Vehicles. National Fire Protection Association. pp. 1-42

**NFPA 556 (2007):**

Methods for Evaluating Fire Hazard to Occupants of Passenger Road  
Vehicles. National Fire Protection Association. pp. 1-556

**O'Connell S (2008):**

Halogen Free Guideline - Project Report. HDPUG, [www.hdpug.org](http://www.hdpug.org). pp. 1-  
68

**Pakalin S, Cole T, Steinkellner J, Nicolas R, Tissier C, Munn S, Eisenreich S.  
(2007):**

Review on Production Process of Decabromodiphenyl Ether (DECABDE) used  
in polymeric applications in electrical and electronic equipment, and  
assessment of the availability of potential alternatives to DECABDE. European  
Commission, European Chmicals Bureau. pp. 1-68

**Papaspyrides C, Kiliaris P. (2014):**

Polymer Green Flame Retardants. National Technical University of Athens  
School of Chemical Engineering; Laboratory of Polymer Technology  
Zographou Campus, Athens, Greece. Elsevier Science Ltd.. pp. 1-943

**Rakotomalala M, Wagner S, Döring M. (2010):**

Recent Developments in Halogen Free Flame Retardants for Epoxy Resins for  
Electrical and Electronic Applications. Materials 2010. pp. 4300-4327

**Regnery j, Püttmann W, Merz C, Berthold G. (2011):**

2011 Occurrence of organophosphorus Flame Retardants and Plasticizers in  
anthropogenically affected groundwater.. Journal of Environmental  
Monitoring. pp.

**Rossi M, Heine L. (2007):**

The Green Screen für safer chemicals: Evaluating Flame Retardants for TV  
Enclosures. Clean Production Action. pp. 1-76

**Sabu T., Visakh P.M. (2012):**

Handbook of Engineering and Specialty Thermoplastics. John Wiley & Sons.  
John Wiley & Sons. pp. 1-289

**Scharnhorst W. (2006):**

Thermal End-Of-Life Treatment Of Printed Wiring Board Assemblies: What are the environmental consequences?. Care Innovation Conference, Vienna.

**Schartel B, Braun U (2002):**

Comprehensive Fire Behaviour Assessment of Polymeric Materials Based on Cone Calorimeter Investigations. BAM (Federal Institute for Materials Research and Testing). pp. 1-14

**Schenker U, Soltermann F, Scheringer M, Hungerbühler K. (2008):**

Modeling the Environmental Fate of Polybrominated Diphenyl Ethers (PBDEs): The Importance of Photolysis for the Formation of Lighter PBDEs. Environmental Science & Technology, Vol. 42, No. 24. pp. 9244-9249

**Schlummer M, Gruber L, Mäurer A, Wolz G, van Eldik R. (2007):**

Characterisation of polymer fractions from waste electrical and electronic equipment (WEEE) and implications for waste management. Chemosphere Vol. 67. pp. 1866-1876

**Simonson M, Blomqvist P, Bodizar A, Möller K, Rosell L, Tullin C, Stripple H, Sundqvist J (2000):**

Fire-LCA Model: TV Case Study. SP Swedish Testing Institute. pp. 1-157

**Sjödin A, Carlsson H, Thuresson K, Sjölin S, Bergman A, Östman C (2001):**

Flame Retardants in Indoor Air at an Electronics Recycling Plant and at Other Work Environments. ES&T, Vol. 35. pp. 448-454

**Sjödin A, Wong L, Jones R, Park A, Zhang Y, Hodge C, Dipietro E, McClure C, Turner W, Needham L, Patterson Jr. D. (2008):**

Serum Concentrations of Polybrominated Diphenyl Ethers (PBDEs) and Polybrominated Biphenyl (PBB) in the United States Population: 2003-2004. Environmental Science & Technology, Vol. 42, No. 4. pp. 1377-1384

**Söderström G, Marklund S (2002):**

PBCDD and PBCDF from incineration of waste-containing brominated flame retardants. ES&T, Vol. 36. pp. 1959-1964

**Stapleton H, Allen J, Kelly S, Konstantinov A, Klosterhaus S, Watkins D, McClean M, Webster T. (2008):**

Alternate and New Brominated Flame Retardants Detected in U.S. House Dust. Environmental Science & Technology, Vol. 42, No. 14. pp. 6910-6916

**Stapleton H, Dodder N, Offenberg J, Schantz M, Wise S. (2005):**

Polybrominated Diphenyl Ethers in House Dust and Clothes Dryer Lint. Environmental Science & Technology, Vol. 39, No. 4. pp. 925-931

**Stapleton H, Klosterhaus S, Keller A, Ferguson P, van Bergen S, Cooper E, Webster T, Blum A. (2011):**

Identification of FR in Polyurethane Foam Collected from Baby Products. Environmental Science & Technology, Vol. 45. pp.

**Stapleton H, Klosterhaus S, Keller A, Ferguson P, van Bergen S, Cooper E, Webster T, Blum A. (2011):**

Identification of FRs in Polyurethane Foam Collected from Baby Products. Environmental Science & Technology. pp.

**Stapleton H, Sjödin A, Jones R, Niehäuser S, Zhang Y, Patterson D. (2008):**

Serum Levels of Polybrominated Diphenyl Ethers (PBDEs) in Foam Recyclers and Carpet Installers Working in the US. Environmental Science & Technology, Vol. 42, No. 9. pp. 3453-3458

**Stec A., Hull R. (2010):**

Fire toxicity. CRC Press. Woodhead Publishing Ltd.. pp. 1-668

**Stevens G (2000):**

Effectiveness of the Furniture and Furnishings Fire Safety Regulations. Fire Safety Regulations 1988 Department of Trade and Industry. pp. 1-49

**Stevens G, Kandola B, Morley N. (2010):**

Fire Retardant Technologies: safe products with optimised environmental hazard and risk performance. GnoSys, University of Bolton, Oakdene Hollins. pp. 1-46

**Stiftung Warentest (2011):**

Brenzlig - Test von Mehrfachsteckern. Stiftung Warentest. pp. 66-71

**Sverko E, Tomy G, Reiner E, Li Y, Mc Carry B, Arnot J, Law R, Hites R. (2011):**

Dechlorane Plus and Related Compounds in the Environment: A Review. Environmental Science & Technology, Vol.45. pp.

**Thomsen C, Lundanes E, Becher G (2002):**

Brominated Flame Retardants in Archived Serum Samples from Norway: A Study on Temporal trends and the Role of Age. Environmental Science & Technology, Vol. 36, No. 7. pp. 1414-1418

**Trachsel M (2007):**

Consensus Platform "Brominated Flame Retardants", National Research Program "Endocrine Disruptors". Swiss National Science Foundation, [http://www.nrp50.ch/uploads/media/finaldocumentenglish\\_06.pdf](http://www.nrp50.ch/uploads/media/finaldocumentenglish_06.pdf). pp. 1-13

**Troitzsch J. (2004):**

Plastics Flammability Handbook. Hanser Publishers, Munich; ISBN: 3-446-21308-2. pp. 1-729

**Trudel D, Scheringer M, von Goetz N, Hungerbühler K. (2011):**

Total Consumer Exposure to Polybrominated Diphenyl Ethers in North America and Europe. Environmental Science & Technology, Vol. 45. pp.

**US-EPA (2005):**

Furniture Flame Retardancy Partnership: Environmental Profiles of Chemical Flame-Retardant Alternatives for Low-Density Polyurethane Foam (Vol. 1+2). US Environmental Protection Agency, [www.epa.gov/dfe](http://www.epa.gov/dfe). pp. 1-153, 1-393

**van der Veen I, de Boer J. (2012):**

Phosphorus flame retardants: Properties, production, environmental occurrence, toxicity and analysis. Chemosphere. pp. 1-35

**Venier M, Hites R. (2008):**

FR in the Atmosphere near the Great Lakes. Environmental Science & Technology, Vol. 42. pp. 4745-4751

**Wäger P, Schluempf M, Müller E, Gloor R. (2011):**

RoHS regulated Substances in Mixed Plastics from Waste Electrical and Electronic Equipment. Environmental Science & Technology. Environmental Science & Technology. pp.

**Washington State Department of Health (2008):**

Alternatives to Deca-BDE in Televisions and Computers and Residential Upholstered Furniture. Department of Ecology State Washington.  
<http://www.ecy.wa.gov/biblio/0907041.html>. pp. 1-118

**Watson A, Brigden K, Shinn M, Cobbing M. (2010):**

Toxic Transformers: - a review of the hazards of brominated & chlorinated substances in electrical and electronic equipment. Greenpeace. pp. 1-39

**Weil E, Levchik S (2009):**

Flame Retardants for Plastics and Textiles: Practical Applications. Hanser Gardner Publications. pp. 1-297

**Weil E, Levchik S (2004):**

Commercial Flame Retardancy of Polyurethanes. Journal of Fire Sciences, Vol. 22. pp. 183-209

**Weil E, Levchik S (2004):**

Commercial Flame Retardancy of Unsaturated Polyester and Vinyl Resins: Review. Journal of Fire Sciences, Vol. 22. pp. 293-303

**Weil E, Levchik S (2008):**

Flame Retardants in Commercial Use or Development for Polyolefins. Journal of Fire Sciences, Vol. 26. pp. 5-43

**Wilkie Ch., Morgan A (2010):**

Fire Retardancy of Polymeric Materials. CRC Press. pp. 1-703

**Zhang X, Diamond M, Robson M, Harrad S. (2011):**

Sources, Emissions, and Fate of Polybrominated Diphenyl Ethers and Polychlorinated Biphenyls Indoors in Toronto, Canada. Environmental Science & Technology, Vol. 45. pp. 3268-3274

**Zweifel H, Maier R, Schiller M. (2009):**

Plastics Additives Handbook. Carl Hanser Verlag. pp. 1-1248