



# Statements of Leading Consumer Electronics Brands

## - the use of brominated and chlorinated organic substances

Working document November 2009

### Acer Group

*To abide by the precautionary principle and to fulfil our corporate responsibility, Acer will proactively support RoHS 2.0 banning all organo- Cl/Br chemicals.*

*We believe that only legislation can drive the whole supply chain to phase out hazardous substances and to produce hazardous substance-free products.*

*Since 2008 Acer has been shipping LCD monitors with BFRs-/PVC-free parts, including product casing, printed circuit board laminates, connectors and internal cables.*

Excerpted from Acer Group sustainability webpage: <http://www.acer-group.com/public/Sustainability/sustainability04.htm>

### Dell

*Dell's goal is to eliminate the use of all BFR chemicals and PVC plastics in our products worldwide.*

*In January 2009, Dell announced the G-Series LED monitors are free of PVC, BFR, CFRs, arsenic and mercury. Flat Panel Displays, which contain multiple printed circuit boards, have halogen-free laminates and chassis plastics.*

*Dell's Latitude E4200 laptop contains a motherboard using halogen-free laminates, as well as halogen-free plastics in the chassis, system fan housing, and impeller.*

Excerpted from Dell's material use webpage: <http://content.dell.com/us/en/corp/d/corp-comm/earth-greener-products-materials.aspx>

### HP

*HP is committed to remove all BFRs and PVCs from newly introduced personal computing products by 2011.*

*HP believes that the EU RoHS Directive plays an important role in promoting industry-wide transition to eliminate potentially hazardous substances.*

*In 1998, HP restricted suppliers' use of a number of substances restricted by the original EU RoHS Directive and now proposed in the EU RoHS revision. For example, in 1998 Cd, PBB/PBDE (including Deca-DBE), Hg restricted, in 2002 SCCP, in 2007 TBBP-A (external case plastics), All BFRs & PVC (external case plastics)*

Excerpted from the HP document Compliance with the RoHS Directives:  
[http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/leadposition.pdf?jumpid=reg\\_R1002\\_USEN](http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/leadposition.pdf?jumpid=reg_R1002_USEN)

### Intel Group

*Although legislation does not require the elimination of halogenated flame-retardants from products, Intel has taken proactive steps over the past few years to eliminate the use of these materials.*

*Intel is introducing halogen-free packaging technology for its processor and chipset products starting in 2008, and will convert most of its 45nm processor and 65nm chipset products to halogen-free packaging technology by the end of 2008.*

Excerpted from the Intel Group website: <http://www.intel.com/technology/silicon/leadfreetech/overview.htm>

## **LG Electronics**

*LG Electronics recognizes that existing legal requirements are not always enough to protect human health and the environment.*

*BFRs will be banned in all new mobile phones from 2010. This will be extended to other product lines, such as washing machines, refrigerators, and air conditioners with the development of substitute components.*

*PVC is being phased out in product components developed since 2008, and is due to be phased out from all new mobile phones from 2010 and from new household appliance models by 2014.*

*PVC, BFRs and Phthalates will be banned from new TVs and monitors by 2012.*

*The use of Phthalates will be prohibited for all new mobile phones from 2012 and newly developed washing machines, refrigerators, air conditioners, cleaners, and microwave ovens by 2014.*

Excerpted from the LG Electronics Management of hazardous Substances: <http://www.lge.com/global/sustainability/environment/details-of-hazardous-substances.jsp>

## **Nokia**

*Nokia supports further restrictions for chlorinated and brominated compounds, as already committed to in our ambitious targets.*

*All new Nokia devices are RoHS compliant and free of PVC. Starting from 2010 the list will also include all Brominated and Chlorinated compounds and Antimony Trioxide.*

*On 4th November 2008 we introduced our first device, Nokia 7100 Supernova, that is free of Brominated compounds, Antimony Trioxide and even free of Chlorinated flame retardants, as specified in the Nokia Substance List*

*Since the introduction of Nokia 7100 Supernova, we've launched 16 new products that are free of these substances. List of these devices is available on request.*

Excerpted from Nokia webpage: <http://www.nokia.com/environment/our-responsibility/substance-and-material-management>

## **Philips**

*Pilot programs support achieving a phase-out of BFRs and PVC by December 31, 2010, for consumer products newly put on the market after that date.*

*All phthalates will be eliminated by December 31, 2010, for consumer products newly put on the market after that date.*

*Currently, in Europe, Flat TV housings Senseo products and oral healthcare products are BFR free and Philips is in full transition in other parts of the world.*

Excerpted from the Philips chemical management webpage:  
<http://www.philips.com/about/sustainability/environmentalresponsibility/chemicalmanagement.page>

## **Sony Group**

*Sony plans to substitute BFRs in the casing and main printed wiring boards of all new models of mobile products by the end of fiscal year 2010, provided that the substitute meets all product quality and technical requirements.*

*BFR Free products: 13 laptop models, 38 Walkmans, 36 video cameras, 9 video recorders, 52 digital cameras, 9 digital photo frames, 3 digital photo printers, 4 series of memory sticks/cards.*

*Sony plans to substitute PVC in all new models of mobile products (excluding accessories) by the end of fiscal year 2010, provided that the substitute meets all product quality and technical requirements.*

*PVC Free products: All Series G laptops, 37 Walkmans, 6 video recorders, 37 video cameras, 32 digital cameras, 9 digital photo frames, 6 series of memory sticks/cards.*

Excerpted from the Sony Group website: <http://www.sony.net/SonyInfo/csr/environment/chemical/products/index.html>