

December 1, 2005

Avago Technologies Product Material Environmental Specifications

Avago Technologies's environmental objective is to provide products that are environmentally sound throughout their lifecycles and conduct operations worldwide in an environmentally responsible manner. It is also Avago Technologies's policy to provide products and services that meet legal requirements and are safe for their intended markets and applications. We control certain materials by placing material limitation on our suppliers for the components and parts we purchase as listed in our General Specifications for the Environment (GSE). We specify that our material suppliers do not intentionally use any of the following material in the manufacture of our product components and parts:

Ozone Depleting Substance (ODS, or Ozone Depleting Compounds, ODC)

- Chlorofluorocarbons (CFC-11, -12, -113, -114, -115)
- Halogenated CFCs (CFC-13, -111, -112, -211 to -217)
- Hydrochlorofluorocarbons (HCFC-21, -22, etc)
- Halons (Halon-1211, -1301, -2402)
- Chlorinated hydrocarbons (Carbon tetrachloride, 1.1.1 trichloroethane)
- Hydrobromofluorocarbons (CHF₂Br, etc)
- Methyl bromide

Persistent Bioaccumulative Toxins

- Polybrominated biphenyl (PBB) and Polybrominated diphenyl ether (PBDE) flame retardants
- Polybrominated Biphenyls (PCB) and Polychlorinated Terphenyls (PCT)

Carcinogens

- Asbestos

Other restrictions

Various restrictions listed below are placed on the use of lead, mercury, and hexavalent chromium in our products and packaging material. These toxic and bioaccumulative metals may be further restricted or phased out in future products as suitable substitutes with lesser environmental impact, are developed.

- Packaging: the metals are not intentionally added and the sum of concentration of incidental trace lead, mercury, cadmium, and hexavalent chromium is restricted to 100 parts per million by weight (100mg/kg)
- Products: lead is not to be used in paint coatings, cadmium is not to be used as stabilizer, colouring agent, or surface coating treatment, mercury is not to be added to products except in certain relays and in fluorescent lamps (upto 10mg/lamp)

Restriction on Hazardous Substance (RoHS) Compliance

Avago Technologies has introduced a full range of lead-free products compliant with the applicable European Union directives aimed at minimizing the environmental impact of electronic waste (RoHS directive). Certain product families classified within the RoHS Directive Annex of exempted applications (network infrastructure equipment for switching, signaling, transmission and network management for telecommunication) are exempted from lead restrictions in the RoHS directive. These products may contain compliant lead in accordance with the exemptions. Custom products may contain RoHS substances in accordance with customer specification.

If you have further questions or concerns regarding Pb-elimination in our component products, e.g. product availability and compliance information, you may contact our distributors, or Avago Technologies Sales & Marketing via rohs.enquiry-spg@avagotech.com.

For product technical information (termination finish, product substance content) or concerns on any other hazardous substance in our products, please provide the name and CAS number of the substance, the Avago Technologies part number, together with the properties of the chemical and its specifications that concern you and contact pb-free.spg@avagotech.com.

Sincerely,

Jim Leising
Vice President
Quality & Strategic Alliance