



1630 McCarthy Boulevard
Milpitas, CA 95035-7417
March 10, 2009



JIG-101 BANNED AND REPORTABLE SUBSTANCES

Linear Technology Corporation follows the guidelines set forth by **JIG-101, Joint Industry Guide, Material Composition Declaration for Electronic Products.**

JIG-101 Level A – Banned Substances Criteria:

Concentration of banned substances shall not exceed quantitative threshold levels in any homogeneous material. Threshold levels are normally set by laws and/or regulations banning or restricting use of these substances ⁽¹⁾. Customers may set dedicated threshold level requirements through environmental specifications.

RoHS substance confirmation that threshold levels are not exceeded are required (ICP reports) and must be performed by an accredited/certified third-party laboratory.

Level A List is composed of materials and substances that, when used in products and subparts are subject to currently enacted legislation which:

- a) Prohibits their use
- b) Restricts their use or
- c) Requires reporting or results in other regulatory effects

JIG-101 Level B Reportable Substances Criteria:

Suppliers and subcontractors shall report concentrations of reportable substances if they are greater than 1000 pp, (0.1% mass) or products consisting of more than one homogeneous material.

Level B List is composed of materials and substances that the industry has determined relevant for disclosure because they meet one or more of the following criteria:

- a) Materials/substances that are of significant environmental, health, or safety interest
- b) Materials/substances that would trigger hazardous waste management requirements
- c) Materials/substances that could have a negative impact of end-of-life management

Additional Requirements – Halogen-Free Substance Restrictions:

Bromine and Chlorine shall have a **sum total concentration** of ≤ 1500 ppm (0.15wt%).

Bromine, Chlorine, and Antimony Trioxide shall **each** have a threshold limit of ≤ 900 ppm (0.09wt%).

(1) Refer to JIG-101A, Annex A for a citation of key laws and regulations governing these substances and examples of their use.



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Level A Material and Substance Declaration:

Material/Substance Category Name	Threshold Level for Prohibition
Asbestos	Intentionally added
Certain azocolourants and azodyes	1. Intentionally added 2. Any content greater than 30 ppm (0.003%) by weight in finished textile or leather articles
Cadmium/Cadmium compounds	1. Intentionally added 2. Any content greater than 100 ppm (0.01%) by weight in homogeneous material
Hexavalent Chromium/Hexavalent Chromium Compounds	1. Intentionally added 2. Any content greater than 1000 ppm (0.1%) by weight in homogeneous material
Lead/Lead Compounds	1. Intentionally added 2. Any content greater than 1000 ppm (0.1%) by weight in homogeneous material
Mercury/Mercury Compounds	1. Intentionally added 2. Any content greater than 1000 ppm (0.1%) by weight in homogeneous material
Ozone Depleting Substances	1. Intentionally added 2. Not used in manufacturing
Polybrominated Biphenyls (PBBs)	1. Intentionally added 2. Any content greater than 1000 ppm (0.1%) by weight in homogeneous material
Polybrominated Diphenylethers (PBDEs)	1. Intentionally added 2. Any content greater than 1000 ppm (0.1%) by weight in homogeneous material
Polychlorinated Biphenyls (PCBs) and Terphenyls (PCTs)	Intentionally added
Polychlorinated Naphthalenes (more than 3 chlorine atoms)	Intentionally added
Radioactive Substances	Intentionally added
Certain Shortchain Chlorinated Paraffins (C10-C13)	1. Intentionally added 2. Any content greater than 1000 ppm (0.1%) by weight in homogeneous material
Certain Tributyl Tin (TBT) and Triphenyl Tin (TPT)	Intentionally added
Tributyl Tin Oxide (TBTO)	Intentionally added



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Level B Material and Substance Declaration:

Material/Substance Category Name	Threshold Level for Reporting
Antimony/Antimony Compounds	1000 ppm
Arsenic/Arsenic Compounds	1000 ppm
Beryllium/Beryllium Compounds	1000 ppm
Bismuth/Bismuth Compounds	1000 ppm
Brominated Flame Retardants (other than PBBs or PBDEs)	1000 ppm
Nickel**	1000 ppm
Certain Phthalates*	1000 ppm
Selenium/Selenium Compounds	1000 ppm
Polyvinyl Chloride (PVC)	1000 ppm

* Regulations exist which limit the use of phthalates in certain products but these regulations do not apply to most electrical and electronic equipment.

** Nickel must be reported in certain regulated applications where nickel is likely to result in prolonged skin exposure. Use of nickel or nickel in components and parts designed to be located inside the outer enclosure of a product need not be reported.

Note: This list is dynamic and should not be assumed the final candidate list.

LINEAR TECHNOLOGY CORPORATION ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION.

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