



Dialight Corporation RoHS Frequently Asked Questions

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Dialight RoHS Certification and Compliance to Environmental Regulations *Frequently Asked Questions*

This document was prepared to address the concerns of our customers and their manufacturing partners. As we learn of new regulations and changes to existing proposals and regulations, the document is subject to revision as needed. Please check our site often to obtain the latest version of this document and all documents hyper-linked within this document.

This document was updated on January 1, 2006.

Robert E. Derringer, *Environmental Compliance Manager*

Questions

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- How do I know which Dialight part numbers are RoHS certified?
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- Are Dialight RoHS certified part numbers backwards compatible to leaded solder processes?
- When will data sheets be available for RoHS certified part numbers?
- What substances of concern are intentionally added to Dialight products?
- Does Dialight plan to label product to indicate RoHS Certified product?
- Does RoHS certified also mean "lead-free"?
- Does qualification data exist for RoHS certified part numbers?
- Does tin whisker data exist for Dialight RoHS certified part numbers?
- What is Dialight's road-map for RoHS certification on its line of Panel Mount Indicators?
- Do Dialight products contain pentabromodiphenyl ether (pentaBDE) or octabromodiphenyl ether (octaBDE)?
- What is Dialight's understanding of the EC's "homogenous" definition?
- My company manufactures network information equipment, servers, storage and storage array systems and plans on taking a product exemption. Do Dialight's standard products comply?
- I'm looking for industry links on lead-free issues, RoHS, WEEE and other environmental matters.

1501 Route 34 South, Farmingdale, NJ 07727
Tel: 732.919.3119 Fax: 732.751.5778
www.dialight.com



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**Dialight RoHS Certification and Compliance to
Environmental Regulations
Frequently Asked Questions**

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| Q1. | What products are currently available RoHS certified? |
| A. | <p>All circuit board indicators; which include:</p> <ul style="list-style-type: none"> - CBI[®] products through-hole circuit board indicators - Optopipe[®] light pipes - Prism[®] surface-mount indicators - <i>microLED</i>[®] discrete LEDs - Series 558/559 and “600 Series” panel-mount indicators <p>conform to the requirements of the European Union’s Restriction on the Use of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive, 2002/95/EC. RoHS Certified products will be available beginning March 1, 2005 through July 2, 2005.</p> <p>Click HERE to view our Blanket Certification or copy and paste this URL into your web browser: http://www.dialight.com/pubs/RoHSComplianceCert.pdf</p> |
| Q2. | How do I know which Dialight part numbers are RoHS certified? |
| A. | <p>Dialight provides the suffix “F” at the end of all RoHS certified part numbers and labels inner packages with an “RoHS Compliant” label.</p> <p>Click HERE to view our web-accessible data base or copy and paste this URL into your web browser: http://www.dialight.com/pubs/Dialight_RoHS_Dates.xls</p> |
| Q3. | How long will I be able to purchase product using Dialight’s standard ordering codes? |
| A. | <p>Dialight will continue to accept orders for its standard ordering codes through 2006. A firm cut-off date has not yet been determined. A formal PCN will be issued well in advance of the announced date. Please click HERE to send an e-mail for inclusion on Dialight’s master PCN list.</p> |
| Q4. | In order to comply with the upcoming WEEE regulation, my company requires Dialight to report material content of various substances. How can Dialight help? |
| A. | <p>As part of our Environmental Compliance Program, Dialight has been working with its supply chain to identify and reduce the content of various substances of concern. Click HERE to view complete material content information for Dialight RoHS Certified part numbers or copy and paste this URL into your web browser: http://www.dialight.com/pubs/Mtl_Content_052305.xls</p> |
| Q5. | We need to know material content information for standard Dialight part numbers, can this be provided? |
| A. | <p>Dialight developed a formal Environmental Compliance Program in conjunction with the European Union’s “RoHS” and “WEEE” Directives. Prior to these Directives, issues such as termination finish and material content were of little interest to our customers and, in most cases, were not addressed in our product specification sheets or customer outline drawings. It is not possible to accurately certify material content information for most standard Dialight part numbers, as some of the product was manufactured prior to the development of our Program. Click HERE to send an e-mail to our Environmental Compliance Manager to request more information on this subject.</p> |
| Q6. | Can Dialight fill out my Material Declaration Form? |
| A. | <p>Dialight provides a self-service web site and is not able to complete user-supplied worksheets.</p> |



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| Q7. | I need plating and process information. Where can I get this information? |
| A. | Dialight uses a number of different packaging sources that results in different plating formulations. Dialight surface-mount and through-hole circuit board indicators are compatible with typical lead-free solder processes. Click HERE to view plating and process information for RoHS certified part numbers or copy and paste this URL into your web browser: http://www.dialight.com/pubs/Dialight_LED_Process_Data.xls |
| Q8. | Are Dialight RoHS certified part numbers backwards compatible to leaded solder processes? |
| A. | Yes, our RoHS certified part numbers can be used with traditional tin/lead solder processes. Since Dialight does not control the solder process, it is recommended that the end user validates the process before using RoHS certified part numbers in their tin/lead solder process. |
| Q9. | When will data sheets be available for RoHS certified part numbers? |
| A. | Data sheets are created on a case-by-case basis and we currently have a large backlog of requests. Click HERE to request a data sheet for one of Dialight's RoHS Certified order codes. |
| Q10. | What substances of concern are intentionally added to Dialight products? |
| A. | Dialight does not intentionally add <i>any</i> harmful substances to its products, including the "dirty 6" RoHS substances and those substances currently identified in the Joint Industry Guide, Annex A and B. |
| Q11. | Does Dialight plan to label product indicate RoHS Certified product? |
| A. | Yes, click HERE to view a sample label or copy and paste this URL into your web browser: http://www.dialight.com/pubs/RoHS_Label.pdf |
| Q12. | Does RoHS certified also mean "lead-free"? |
| A. | Dialight RoHS Certified products contain less than 1000ppm of lead in the total mass of the indicator. No lead is intentionally added to RoHS Certified products. |
| Q13. | Does qualification data exist for RoHS certified part numbers? |
| A. | Dialight is compiling qualification data that will be made available upon request. |
| Q14. | Does tin whisker data exist for Dialight RoHS certified part numbers? |
| A. | Along with qualification data, we are working with our packaging sources to offer preliminary tin whisker reliability data. The finishes chosen by Dialight are typical within the industry and should offer our users high confidence that tin whisker growth is of little concern. Click HERE to view industry information on tin whisker growth or copy and paste this URL into your web browser: http://thor.inemi.org/webdownload/projects/ese/tin_whiskers/User_Group_mitigation_May05.pdf |

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| Q15. | What is Dialight’s road-map for RoHS certification on its line of Panel Mount Indicators? |
| A. | RoHS Certified panel-mount indicators engineered using LED technology will be introduced in the beginning of 2006. Availability dates will be posted to our web-accessible file (see answer to Q2). Traditional lamp holders, lens caps, military press-to-test indicators and related accessories will be investigated upon request and certified whenever possible. |
| Q16. | Do Dialight products contain pentabromodiphenyl ether (pentaBDE) or octabromodiphenyl ether (octaBDE)? |
| A. | Dialight indicators (circuit-board and panel-mount) do not contain pentabromodiphenyl ether (pentaBDE) or octabromodiphenyl ether (octaBDE). |
| Q17. | What is Dialight’s understanding of the EC’s “homogenous” definition? |
| A. | Dialight’s RoHS Certified part numbers are certified as compliant at the homogenous material level. |
| Q18. | My company manufactures network information equipment, servers, storage and storage array systems and plans on taking a product exemption. Do Dialight’s standard products comply? |
| A. | Dialight offers a blanket exemption which is contained HERE or copy and paste this URL into your web browser: http://www.dialight.com/pubs/Exemption_Cert.pdf |
| Q19. | I’m looking for industry links on lead-free issues, RoHS, WEEE and other environmental matters. |
| A. | <p>Dialight’s Environmental Compliance Team lists the following web links for your reference. These sites are publicly available on the World Wide Web using readily available search engines.</p> <p>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</p> <p>DIRECTIVE 2002 /96/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on waste electrical and electronic equipment (WEEE)</p> <p>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 (pentabromodiphenyl ether, octabromodiphenyl ether)</p> <p>COMMISSION DECISION of 11 March 2004 concerning a questionnaire for Member States reports on the implementation of Directive 2002/96/EC of the European Parliament and of the Council on waste electrical and electronic equipment (WEEE)</p> |