



## Material Declaration Data Sheet Certificate of Compliance

Date: March 29, 2012  
 Company Name & Address: Enpirion, Inc, 53 Frontage Road, Hampton, NJ 08827  
 908-894-6000      www.enpirion.com  
 Product Part Numbers: **EN23F0QI**  
 Product Function: Power Management  
 Product Physical Description: 12x13x3 mm, 92-pin QFN, Copper Leadframe, Matte-Tin Finish  
 Lead-free Product & Lead-free Assembly, MSL3, Peak Temperature 260°C  
**Compliant with RoHS, Halogen-Free & REACH Requirements**  
 Product Total Mass (g): 1.48

### Level A Material and Substances Declaration

Materials from Annex A of JIG-101 (EICTA, JGPSSI, EIA, JEDEC Joint Industry Material Composition Declaration Guide)  
 For each RoHS substance, marked with an asterisk (\*), the worst case ppm at the homogeneous material level is stated.

| Material/Substance Category Name     | Threshold Level                 | Above Threshold Level ? (Y/N) | Material/Substance Category Name           | Threshold Level                 | Above Threshold Level ? (Y/N) |
|--------------------------------------|---------------------------------|-------------------------------|--|---------------------------------|-------------------------------|
| Asbestos                             | Intentionally Added             | N                             | Polybrominated Diphenylethers (PBDEs)*     | 1000 ppm or Intentionally Added | N                             |
| Azo Colorants                        | Intentionally Added             | N                             | Polychlorinated Biphenyls (PCBs)           | Intentionally Added             | N                             |
| Cadmium/Cadmium Compounds *          | 75 ppm or Intentionally Added   | N                             | Polychlorinated Naphthalenes               | Intentionally Added             | N                             |
| Hexavalent Chromium & its Compounds* | 1000 ppm or Intentionally Added | N                             | Radioactive Substances                     | Intentionally Added             | N                             |
| Lead/Lead Compounds*                 | 1000 ppm or Intentionally Added | N                             | Shortchain Chlorinated Paraffins           | Intentionally Added             | N                             |
| Mercury/Mercury Compounds*           | 1000 ppm or Intentionally Added | N                             | Tributyl Tin (TBT) and Triphenyl Tin (TPT) | Intentionally Added             | N                             |
| Ozone Depleting Substances           | Intentionally Added             | N                             | Tributyl Tin Oxide (TBTO)                  | Intentionally Added             | N                             |
| Polybrominated Biphenyls (PBBs)*     | 1000 ppm or Intentionally Added | N                             |  |                                 |                               |

### Level B Material and Substances Declaration

Materials from Annex B of JIG-101 (EICTA, JGPSSI, EIA, JEDEC Joint Industry Material Composition Declaration Guide)

| Material/Substance Category Name | Threshold Level | Above Threshold Level ? (Y/N) | Material/Substance Category Name   | Threshold Level | Above Threshold Level ? (Y/N) |
|----------------------------------|-----------------|-------------------------------|------------------------------------|-----------------|-------------------------------|
| Antimony/Antimony Compounds      | 1000 ppm        | N                             | Nickel (External Application Only) | 1000 ppm        | N                             |
| Arsenic/Arsenic Compounds        | 1000 ppm        | N                             | Phthalates                         | 1000 ppm        | N                             |
| Beryllium/Beryllium Compounds    | 1000 ppm        | N                             | Selenium/Selenium Compounds        | 1000 ppm        | N                             |
| Bismuth/Bismuth Compounds        | 1000 ppm        | N                             | Vinyl Chloride Polymer (PVC)       | 1000 ppm        | N                             |
| Brominated Flame Retardants      | 1000 ppm        | N                             |                                    |                 |                               |

### Halogen-Free (IEC 61249-2-21)

Worst case ppm at the homogeneous level

| Material/Substance Category Name | Threshold Level | Above Threshold Level ? (Y/N) |
|----------------------------------|-----------------|-------------------------------|
| Bromine                          | 900 ppm         | N                             |
| Chlorine                         | 900 ppm         | N                             |
| Bromine + Chlorine               | 1500 ppm        | N                             |

Substances in the REACH SVHC list are NOT intentionally added or used in our products.

#### Comments:

The information stated on this page attests to the compliance of the indicated product to the European Union Directive 2002/95/EC and to the WEEE directive 2002/96/EC. The data format is in compliance with JIG-101, the Joint Industry Guide for Material Composition Declaration for Electronic Products, issued April 2005, by Electronics Industries Alliance (EIA), Joint Electronic Device Engineering Council (JEDEC), Joint European Industry Communication Technology Association (EICTA) and Japan Green Procurement Survey Standardization Initiative (JGPSSI).  
 The information contained in this table is to our knowledge correct as of the date indicated on this page. This information is based on information provided by the suppliers and manufacturers of the components and materials that are used in the assembly this product.

**Ashok Saxena**  
 Manager, Quality Assurance & Environment