



Microsemi, Integrated Products Group (MSC-IP) is committed to taking an active role in protecting the environment. We are dedicated to developing and maintaining Products, Processes, and Environmental Management Systems that meet government regulations, international standards, and our customers expectations. As part of this commitment, MSC-IP has developed a RoHS / Pb-free Transition Strategy to offer RoHS / Pb-free qualified packages on all plastic encapsulated/non hermetic products by Q1 of 2005.

MSC-IP RoHS / Pb-free packages will include the following characteristics:

- RoHS / Pb-free finish (100% matte tin plating in most cases)
- Mold compounds and die attach material qualified for use with peak (260+0/-5°C) reflow profiles typically used with RoHS / Pb-free solder
- MSL level 1 rating (in most cases)
- "Green" mold compounds and die attach materials (i.e. meet the RoHS requirements)

Since the RoHS / Pb-free qualified packages will be qualified for elevated reflow profiles they will also be backward compatible with the lower reflow profiles traditionally used for tin-lead (PbSn) solders. Therefore, after the introduction of a RoHS / Pb-free product, MSC-IP will discontinue production of the non RoHS / Pb-free product.

The RoHS / Pb-free Transition Strategy is to qualify package families (i.e. QFN, MSOP, etc.) As each package family completes qualification, all customers buying product that use that package family will be notified 90 days in advance of the implementation of the RoHS / Pb-free package, by Process Change Notification (PCN). Mechanical samples of the RoHS / Pb-free package will also be available at that time. Unless the customer notifies MSC-IP to the contrary, by return of the PCN, delivery of the RoHS / Pb-free product will commence soon after the previously defined implementation date.

With the exception of lead (Pb), the MSC-IP plastic encapsulated products currently meet the requirements of the RoHS legislation. Specifically, these products do not contain Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls (PBB) or Poly Brominated Diphenyl Ethers (PBDE.)

Hermetic products manufactured by MSC-IP are processed in accordance with the requirements specified by DSCC. These requirements require the continued use of Pb/Sn lead finishes, therefore MSC-IP will in the future release new versions of these hermetic packages with Sn only finishes while continuing to produce the Pb/Sn original version.