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ISO 9001:2008 Registered

RoHS Directive 2011/65/EU

The European Community has implemented the subject directive to reduce certain hazardous substances in electronic equipment introduced into Europe. As a result of this directive, various forms of declaration or compliance have been requested by customers of EMJ for their use in determining compliance with the RoHS directive.

Prohibited/restricted substances are **lead, mercury, cadmium, hexavalent chromium**, and chemical compounds known as **PBB & PBDE**. PBB and PBDE are not applicable to metallic materials. On March 31st, 2015, four additional substances were added to the Directive. These 4 chemical compounds, **DEHP, BBP, DBP, and DIBP** are also not applicable to metallic materials.

Although the vast majority of items sold by EMJ are compliant to this directive, there are exceptions. Listed below is a summary of the exemptions which apply to EMJ's product inventory:

- Annex III of the directive permits **lead in steel** to a maximum of 0.35% (Rule 6a) which makes all steels, even leaded carbon and alloy steels, compliant.
- **Lead in brass** is permitted up to a maximum of 4% (Rule 6c) making brass products *up to this limit* compliant. Care should be taken to investigate the composition if dealing with a buy-out order.
- **Lead in aluminum** alloys is restricted to a maximum of 0.4% (Rule 6b), making aluminum products with applicable chemistries compliant. Non-compliant aluminum product is 6262.

In addition, the following general rules apply: Stainless steel products are RoHS compliant. Mercury and cadmium are not constituents of any material supplied by EMJ. Chromium as an **alloying element** in metals is **not** hexavalent chromium. Alloys containing Cr are compliant with RoHS. Chromium plating or di-chromate anti-corrosion coatings are hexavalent chromium and therefore non-compliant.

Compliance to this directive begins with design and then specification of materials that are appropriate. Appropriate materials are always compliant.



Technical Director

2/7/2017
Date