

European Directive Implementation Services

WEEE, RoHS and REACH Compliance Assistance

Becoming compliant with WEEE, RoHS and REACH standards is a challenge many companies are facing today. Through our experience, practical solutions, and commitment to our clients, CAPACCIO is ready to assist your company with WEEE, RoHS and REACH compliance. But what exactly is WEEE, RoHS and REACH?

WEEE is a European Union (EU) Directive defined as "Waste from Electrical and Electronic Equipment" (2002/96/EC). This directive makes producers and importers responsible for the safe disposal and treatment of electrical and electronic waste at end of life. The directive's intent is to reduce the impact of this waste to the environment during the product's life cycle and to assign financial responsibility for the process.

The WEEE Directive is defined through individual European member state legislation, which encourages and sets the criteria for recycling, recovery and financial responsibility. WEEE requires producers of this equipment to comply with the directive by meeting the terms defined by the European member state laws, regulations and administrative provisions.

The following product categories are affected by WEEE:

- Large Household Appliances
- Small Household Appliances
- IT and Telecommunications Equipment
- Consumer Equipment
- Lighting Equipment
- Electronic and Electrical tools
- Toys, Leisure, and Sport Equipment
- Medical Devices
- Monitoring and Control Instruments
- Automatic Dispensers

WEEE requires producers to:

- Label materials
- Register with applicable EU state
- Participate in the country's treatment, recovery, and recycling scheme or propose an alternate method
- Provide a financial guarantee
- Recycle all material entering the EU on or after August 15, 2005
- Meet annual recycling targets

RoHS is the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (2002/95/EC). It is an EU Directive requiring producers to reduce the amount of specified hazardous substances from their electrical and electronic equipment.

The RoHS directive provides the structure for a unified vision from all EU member states for waste from electrical and electronic equipment hazardous substance content.

RoHS requires regulated producers of electrical and electronic equipment to meet the EU member states united law and self-declare compliance. Specifically, RoHS requires producers to reduce product content of certain hazardous substances.

The following substances are governed by RoHS:

- Mercury (Hg) 1000 ppm/0.1%
- Lead (Pb) 1000 ppm/0.1%
- Cadmium (Cd) 100 ppm/.01%
- Hexavalent chromium (CrVI) 1000ppm/0.1%
- Brominated flame retardants: polybrominated biphenyls, (PBB) or polybrominated diphenyl ethers (PBDE) 1000 ppm/0.1%

The Registration, Evaluation, Authorization and Restriction of Chemical substances (**REACH**) is another EU Directive aimed at improving the protection of human health and the environment through identification of the intrinsic properties of chemical substances. The title and basic language in the directive, however, infer it is for the control of "chemicals" only, but REACH goes beyond the chemical manufacturing industry. The Directive has a much larger scope in that it also encompasses specific requirements for "articles" as well.

An article, as defined by the REACH directive, is "an object which during production is given a special shape, surface or design, which determines its function to a greater degree than does its chemical

composition.” This means, under REACH, any electrical and electronic product could be defined as an article, including electrical and electronic components, sub-assemblies, modules and end products. An article could also mean a table, chair, metal flange, plastic mold or wallpaper.

The good news is that all ‘articles’ are not necessarily subject to current restrictions under REACH. However, if a product or ‘article’ meets any of the following criteria, then it is potentially subject to registration requirements under REACH:

- Is specifically identified in REACH as regulated
- Contains restricted REACH substance in greater than .01% by weight
- Has restricted substance that remains in product after manufacturing
- Will exceed annual threshold of one ton manufactured or imported in EU
- Contains a restricted REACH substance that will be emitted under normal operation conditions or at disposal

SERVICES

- Strategic planning
- Facilitation of compliance
- Gap analysis
- Process mapping
- Risk assessment
- Regulatory/compliance impact assessment
- Incorporation into ISO 14001 EMS/QMS
- Road map development
- Training and awareness
- Material declaration advisement
- Process development, documentation, and review
- Integration into day-to-day operations
- Implementation team member
- Global regulatory updates
- Regulatory impact assessment



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QUALIFICATIONS

Our professionals possess expertise in environmental regulations as well as a working knowledge of the day-to-day operations of the electronics, manufacturing, semiconductor, pc board, surface mount and chip/wire industries. This in-depth knowledge will help to provide a solid understanding in assisting your company with WEEE, RoHS and REACH compliance.

