



TARAKI/SHUTTERSTOCK

## RESTRICTED AND HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT

Actors of the Electronic and Electrical industry must fulfil legislative requirements on the use of hazardous substances in the products they sell, manufacture or import.

The RoHS Directive (2011/65/EU) – which is a CE-marking directive - restricts the use of lead, cadmium, mercury, hexavalent chromium, and brominated flames retardants in a wide range of electrical and electronic equipment (EEE) in the European Economic Area (EEA) market.

These restrictions apply to all homogeneous materials that the final EEE consists of, and is a frequent cause of product recall following market surveillance by national authorities.

Moreover, the REACH Regulation (EC) No 1907/2006 is an EU wide regulatory process addressing – among others - the use of hazardous substances in consumer products including EEE. It imposes safety

and communication duties along the supply chain of articles sold in the EU according to the Candidate List of Substances of Very High Concern (SVHC) and the list of restrictions (Annex XVII).



Suppliers of articles must collect information on the presence/absence of SVHCs in the articles and components of the products they place on the market. That information must be made available upon request of the inspection authorities and also provided to consumer as per the right to know principle.

Testing as well as systematic product information management are the most efficient way to meet requirements.

## SGS FINLAND'S SOLUTIONS

### TESTING SERVICES

SGS laboratories including IECEE CB testing laboratories, having IEC 62321 standards in their accreditation scope test materials, components and finished products in different parts of the world.

- Determination of the substances restricted by the RoHS Directive (XRF-screening and wet chemical analysis)
- Determination of other substances recently listed in the RoHS Directive
- Other hazardous substances testing
- Risk assessment and smart test plan for selected high-risk materials

- Screening of SVHC (latest version of the REACH Candidate List)
- Determination of REACH Annex XVII substances for instance: Polycyclic Aromatic Hydrocarbons (PAHs), Nickel release, phthalates, tin compounds, HBCCD, SCCPs, plasticizers and flame retardants.

### PRODUCT CERTIFICATION: SGS ROHS CERTIFICATION

The SGS RoHS Certification Mark is a visible sign of independent verification of the EEE's conformity with the RoHS Directive. It demonstrates commitment to quality and achieving consistent production. SGS RoHS certification is a voluntary product certification scheme. SGS Finland makes the RoHS certification decision based on the results of RoHS testing and factory inspections. The SGS RoHS Certification Mark can be affixed on certified electronic and electrical equipment.

### ADVISORY SERVICES

RoHS:  
SGS Finland offers advisory services on the RoHS Directive such as but not limited to:

- guiding customers on the scope of the directive and the applicable exemptions
- advising on how to collect and assess documentation for conformity assessment
- verification of RoHS documentation made available by suppliers

REACH:  
SGS Finland provides tailor-made training on REACH and guidance on interpretation of specific aspects of the regulation.

Other compliance solutions for the Electronic and Electrical industry:

- SGS Finland offers compliance solutions related to a wide range of EU legislation affecting the Electronic and Electrical industry such as the Ecodesign Directive, the Energy Labelling Directive and the WEEE directive.
- SGS Finland offers solutions to comply with safety requirements set out in respective directives as well as with the EMC Directive and the Radio Equipment Directive.
- Moreover, SGS Finland is a Technical Service designated by the Finnish Type Approval Authority (Trafi) and hence can issue test report and control conformity of production required for type approval of electronic equipment. The scope covers EMC requirements set out in the ECE regulation No 10 for electronics used in vehicles. The E17 mark can be affixed on approved types.

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