

ELECTRICAL AND ELECTRONIC HAZARDOUS SUBSTANCES OF **EQUIPMENT AND ANALYSIS**

SGS





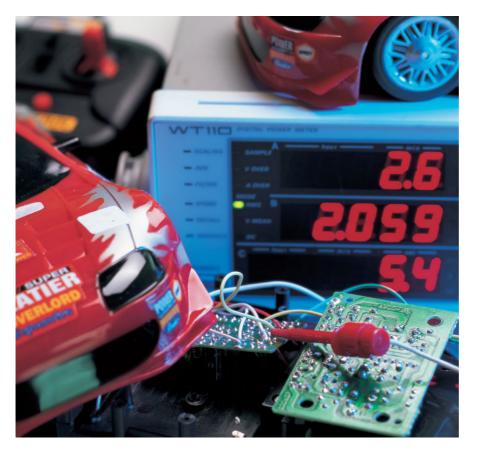


HAZARDOUS SUBSTANCES OF ELECTRICAL AND ELECTRONIC EQUIPMENT AND ANALYSIS

RoHS

The RoHS-directive (Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment) restricts the use of certain hazardous substances. The directive is valid for electrical and electronic equipment operating with max. 1000 V AC or max. 1500 V DC.

From July 1, 2006 the use of hazardous substances mentioned in the directive cannot be used in electrical and electronic equipment. The aim of the directive is to reduce health and environmental risks caused by electrical and electronic equipment. International investigations show that the restricted substances have caused cancer, allergies and other illnesses.

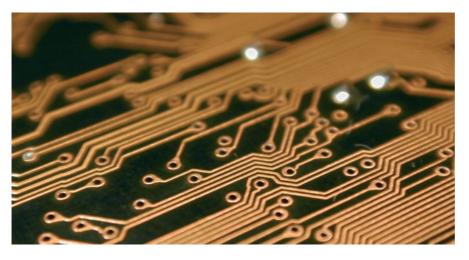


The RoHS directive includes six restricted substances:

- Cadmium
- Mercury
- Lead
- Hexavalent chromium
- Brominated flame retardants (PBB and PBDE)

The RoHS directive is valid for the following products:

- household appliances
- information technology and telecommunication equipment
- consumer electronics
- lighting fittings
- electrical tools
- toys
- sports and leisure equipment
- vending machines
- filament lamps





Product development and type testing

Similar components and materials can be tested at the same time. If hazardous substances are found during testing, each component is tested separately to find the hazardous substance or the material in question.

Advantages

Faster and cheaper testing.

Quality management of suppliers of row materials and components

When non-hazardous components are chosen in the product development stage, the sub-contractors of raw materials and components shall monitor their own processes and make sure that all products are non-hazardous. SGS international network is at your disposal.

Quality management of manufacturers and importers

The manufacturer or importer of the final product is the one who is responsible for the compliance with the RoHS directive. The manufacturer should check the quality of materials, components and product being produced by random testing. Correspondingly, also the importer should perform his own quality control by random testing.

The rest of the world

Also outside Europe there are requirements regarding restriction of hazardous substances. Other countries can have additional requirements or differences in approvable proportion of hazardous substances. SGS international network helps you to clarify the requirements.

Material Testing/ Finished Product Testing

SGS suggests that individual materials and components are tested at the early stages of production, such as at material selection or product development.

SGS services with regard to the RoHS directive

- Clarification of the requirements
- Analysis of hazardous substances for components and materials during the product development stage and during quality control
- Training regarding RoHS directive and analysis of hazardous substances
- Verification of hazardous substance analysis carried out by other laboratories (we interpret test results)
- We grant impartial Statement of Conformity for RoHS Directive

What makes a product fulfil the requirements?

- Safety
- EMC
- Energy efficiency
- Recyclability
- Free from hazardous substances
- Environmental conditions
- The national requirements in different countries

CONTACT LIST ROHS LABS WORLDWIDE

EUROPE

UK

SGS United Kingdom Limited Unit 10, South Industrial Estate Bowburn County Durham DH6 5ADR≠

Contact: Kevin Welch T +44-(0)191-3772000 F +44-(0)191-3772020 E kevin.welch@sgs.com

Belgium

SGS Belgium NV, Division IAC Haven 407, Polderdijkweg 16 B-2030 Antwerpen, Belgium

Contact: Marc van Ryckeghem Sales contact: Ronan Maquestiau T +32(0)3 545 85 91 F +32 (0) 3 545 85 99 E marc.vanryckeghem@sgs.com E ronan.maquestiau@sgs.com

Germany

SGS Institut FRESENIUS GmbH Im Maisel 14 65232 Taunusstein, Germany

Contact: Dr. Udo Krischke Sales contact: Heiko Schmidt T +49 (0) 231 98 22 95 45 F +49 (0) 231 98 22 95 47 E udo.krischke@institut-fresenius.de E heiko.schmidt@sgs.com

France

SGS Multilab Rouen 2, Rue Duguay-Trouin, BP 1282 76178 Rouen, France

Contact: François David Sales contact: Marcel Manon T + 33 2 35 07 91 75 F + 33-2-35-07-91-63 E francois.david@sgs.com E marcel.manon@sgs.com

Spain

SGS Espania SGS Tecnos, S.A. Trespaderne 29 28042 Madrid, Spain

Contact: Jose Ciria Sales contact: Susanna Serra T +34 91 313 81 97 F +34 91 313 80 93 E jose.ciria@sgs.com E susanna.serra@sgs.com

Finland

SGS Finland SGS Inspection Services Oy Syvasatamantie 24 49460 Hamina, Finland

Contact: Olli-Pekka Jaakola Sales contact: Kimmo Ahtokari T +358 40 705 9117 F +358 5 345 3366 E olli-pekka.jaakola@sgs.com E kimmo.ahtokari@sgs.com

Turkey

SGS Supervise Gozetme Etud Kontrol Servisleri A.S. Abide-i-Hurriyet Cad., Gecit Sok No.10, Kat 1-2-3-4 34381 Sisli, Istanbul, Turkey

Contact: Nadin Hacerestunc T +90-212-225 00 34 ext: 211 F +90-212-296 47 82 E nadin.hacerestunc@sgs.com

ASIA

Taiwan

SGS Taiwan Ltd. 136-1 Wu Kung Road Wuku Industrial Zone Taipei County, Taiwan 248

Contact: Mr. Philip Yao Dr. Clark Chu T + 886-2-2299 3939 F + 886-2-2299 3237 / -2-2298 1338 E philip.yao@sgs.com E clark.chu@sgs.com

Shanghai

SGS-CSTC Standards, Technical Servicess Co., Ltd. Shanghai Branch 10F, 3rd Building, No.889, Yishan Road Xuhui District, 200233 Shanghai, China

Contact: May Wu T +86-21-61402686 F +86-21-64953679 E may.wu@sgs.com

Guangzhou

SGS-CSTC E&E RSTS
Guangzhou
4/F Block 8,
Yu Jing Industrial Park
Ling Shan Road, Zhu Cun,
DongPu
Tianhe District,
Guangzhou, China

Contact: Cherry Qian T +86 20 8216 9300 ext 152 F +86 20 8216 9558 E cherry.qian@sgs.com













Shenzhen

SGS-CSTC Standards, Technical Servicess Co., Ltd. Shenzhen Labs 4F Oaster Buidling, Zhong Kang Rd. Shang Mei Lin, 51809 Shenzhen, China

Contact: Maggie Mak T +867558311 4358 ext 358 F +867558318 2782 E maggie.mak@sgs.com

Tianjin

SGS-CSTC - E&E RSTS Tianjin C1-8 to 9, 1/F, No.41, The 5th Avenue, TEDA, Tianjin

Contact: Rita Ma T +86 022 25293899 ext 135 F +86 022 25295252 E rita.ma@sgs.com

Hong Kong

SGS Hong Kong Ltd. 5F-8F &28F, Metropole Square 2 On Yiu Street, Siu Lek Yuen Shatin, N.T., Hong Kong

Contact: Miranda Lee T +852 - 2774 7123 F +852 - 2334 2461 E miranda.lee@sgs.com

Japan

SGS Far East Limited Green Testing Center, YBP East Tower 12F 134 Godo-cho Hodogaya Yokohama 240-0005, Japan

Contact: Kuniyuki Goto T 81 45 330 1101 F 81 45 330 1108 E kuniyuki.goto@sgs.com

Malaysia

SGS (Malaysia) Sdn. Bhd. Wisma SGS Lot 603 Leboh Raja Lumu Kawasan Perindustrian PKNS, Pandamaran 42000 Port Klang Selangor Darul Ehsan, Malaysia

Contact: CP Tin T +6 (03) 3165 2320 ext 200 or +6 (03) 3165 2325 (direct) F + 6 (03) 3165 2324 E cp_tin@sgs.com

Singapore

SGS Testing & Control Services Singapore Pte Ltd. 26 Ayer Rajah Crescent #03-07 Ayer Rajah Industrial Estate, Singapore 139944

Thailand

SGS (Thailand) Limited 41/23 Rama 3 Soi 59, Rama 3 Road, Chongnonsee, Yannawa, Bangkok 10120 Thailand

Contact: Pornpana Lirathpong T (66) 2 2947485-9 F (66) 2 2947484 E pornpana.lirathpong@sgs.com

South Korea

SGS Korea Co. Ltd. 5F, 18-34, Sambon-Dong Gumpo, Gyeonggi-do, Korea

Contact : Jason Han T +66-2-2947485 F +66-2-2947484 E jason_han@sgs.com

Philippines

SGS Philippines 2ndFloor Alegria Bldg., 2229 Chino Roces Ave. Makati City, Philippines

Contact: Leah Jaboli T +63-2-8175656 F +63-2-7522355 E leah.jaboli@sgs.com

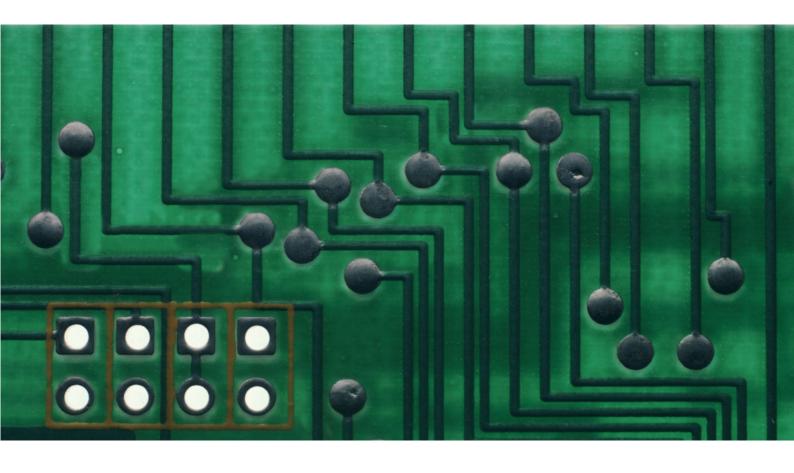
AMERICA

USA

SGS U.S Testing Company-Fairfield New Jearsey 291 Fairfield Avenue Fairfield NJ USA 07004

Contact: Harold Marcoux T +630-518-6263 F +630-897-8440 E harry.marcoux@sgs.com





WWW.SGS.COM

