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Singapore RoHS 2016

By Little Pro on 2016-08-18

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In August 2016, the Ministry of the Environment and Water Resources (MEWR) in Singapore published the amendment of the second schedule of Environmental Protection and Management Act (known as **Singapore RoHS** or **SG RoHS**). The amendment is adapted from EU RoHS 2 (http://www.chemsafetypro.com/Topics/Restriction/EU_RoHS_2_EU_RoHS_Directive.html) and will restrict 6 hazardous substances in some electrical and electronic equipments (EEE) from **1 July 2017**. [Source: ChemicalWatch news (<https://chemicalwatch.com/48967/singapore-publishes-rohs-regulation-plans-2017-implementation>)].

Scope of Singapore RoHS

SG RoHS only applies to the following 6 types of electronic and electrical products (excluding spare parts and components which are sold separately).

- Mobile phones
- Portable computers
- Air conditioners
- Panel TVs
- Refrigerators
- Washing machines

Other types of electrical and electronic products such as industrial use equipment, medical devices and microwaves are excluded from SG RoHS.

Singapore RoHS Restricted Substances

Singapore RoHS restricts the same 6 hazardous substances as EU RoHS 2 ([../Restriction/EU_RoHS_2_EU_RoHS_Directive.html](#)) except for phthalates. (http://www.chemsafetypro.com/Topics/EU/REACH_annex_XVII_phthalates_restriction.html) Detailed concentration limits are listed as below.

Status	Substances and Limits
Current Restrictions	<ul style="list-style-type: none"> • Cadmium(Cd) and its compounds: 0.01% • Mercury and its compounds: 0.1% • Lead(Pb) and its compounds : 0.1% • Hexavalent chromium (Cr6+) and its compounds: 0.1% • Polybrominated biphenyls (PBB): 0.1 %; • Polybrominated diphenyl ethers (PBDE): 0.1 %

Under EU RoHS 2, certain applications and products are exempt from above restriction limits (For example, Cadmium in helium-cadmium lasers). Singapore RoHS plans to harmonize the full list of EU-RoHS exemptions with the exemption list under SG-RoHS.

Declaration of Compliance

Before the sale of the affected product in Singapore, each local manufacturer or importer(trader) is required to submit a declaration of conformity for the controlled EEE to the National Environmental Agency (NEA). A technical file also needs to be prepared and kept in accordance with EU BS EN 50581:2012 technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/restriction-of-hazardous-substances_en) or equivalent standard.

If the company manufactures RoHS non-compliant products in Singapore, these products would not be allowed for local sale. The company would have to apply for a hazardous substance license from NEA to export these products.

SG RoHS vs EU RoHS 2

Items	SG RoHS	EU RoHS 2
Scope	<ul style="list-style-type: none"> • SG: 6 types of electronic and electrical products only; • Spare parts and components are out of scope. 	<ul style="list-style-type: none"> • EU: All electronic and electrical products except those that are exempt; • Also applies to parts and components.
Restricted Substances	<ul style="list-style-type: none"> • SG: 6 substances; 	<ul style="list-style-type: none"> • EU: 6 + 4 phthalates (added in 2015 (Directive_EU_2015_863_EU_RoHS_Restricts_4_Phthalates_DEHP_BBP_DBP_DIBP.html));
Marking	<ul style="list-style-type: none"> • SG: No special mark; 	<ul style="list-style-type: none"> • EU: CE Mark + WEEE Mark;
Compliance declaration	<ul style="list-style-type: none"> • SG: Must submit a declaration of compliance before sale. 	<ul style="list-style-type: none"> • EU: Self-declaration does not need to be submitted to regulators.

SG RoHS vs EU RoHS 2

RoHS in Other Countries

Country Summary & Reference

China	<ul style="list-style-type: none"> China RoHS 1.0: The Measures for the Administration of the Control and Electronic Information Products (2006); Applicable to products listed in the catalogue of electrical and electronic products; Restricts the same 6 hazardous substances as EU RoHS 2.0; Additional RoHS labelling requirements set by SJ/T 11364-2014; China RoHS 2.0: The Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products (Being drafted). More info about China RoHS 2.0 (../Restriction/China_RoHS_2_vs_EU_RoHS_2.html).
Japan	<ul style="list-style-type: none"> Japan RoHS: JIS C 0950 The marking for presence of the specific chemical substances for electrical and electronic equipment; Applicable to 7 types of electrical and electronic products; Mandatory disclosure and labeling if the content of 6 hazardous substances exceeds certain limits; Read more about Japan RoHS (http://www.chemsafetypro.com/Topics/Japan/Japan_RoHS_and_JIS_C_0950.html)
Korea	<ul style="list-style-type: none"> Korea RoHS: The Act for Resource Recycling of Electrical and Electronic Equipment and Vehicles (2007); Korea's version of the RoHS, WEE and ELV directives; Restricts the same 6 hazardous substances as EU RoHS 2.0; More info about Korean RoHS (http://www.chemsafetypro.com/Topics/Korea/Korea_RoHS_WEEE.html)
Taiwan	<ul style="list-style-type: none"> Taiwan RoHS: CNS 15663 Guidance to reduction of the restricted chemical substances in electrical and electronic equipment; Voluntary national standard restricting the same 6 hazardous substances; Sets its own hazardous substance marking requirement. More info about Taiwan RoHS (http://www.chemsafetypro.com/Topics/Taiwan/Taiwan_RoHS_regulation_CNS_15663.html)
USA	<ul style="list-style-type: none"> No federal RoHS-style legislation; California's Electronic Waste Recycling Act of 2003 (EWRA) prohibits the sale of some electronic devices after January 1, 2007, that are prohibited from being sold under the EU RoHS directive; The substances restricted are "certain heavy metals," specifically lead, mercury, cadmium and hexavalent chromium; Reference (http://www.calrecycle.ca.gov/Electronics/Act2003/)

References

- Environmental Protection and Management Act(Amendment of Second Schedule) Order 2016 (<http://files.chemicalwatch.com/singaporerohs.pdf>)
- Consolidated Text of Environmental Protection and Management Act (<http://statutes.agc.gov.sg/aol/search/display/view.w3p?page=0;query=DocId%3A%227cc1971c-6237-4f5a-a75c-dd378fc80179%22%20Status%3Ainforce%20Depth%3A0;rec=0>)
- NEA's response to the public consultation on new RoHS requirements (<https://www.reach.gov.sg/~media/old-site/0/econsult/183/summary/nea-responses-to-key-feedback-received-from-reach-public-consultation.pdf>)

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[Directive \(EU\) 2015/863 Amends EU RoHS to Restrict 4 New Phthalates: DEHP, BBP, DBP and DIBP \(../Topics/Restriction/Directive_EU_2015_863_EU_RoHS_Restricts_4_Phthalates_DEHP_BBP_DBP_DIBP.html\)](#)
[EU RoHS 2 \(Directive 2011/65/EU\) \(../Topics/Restriction/EU_RoHS_2_EU_RoHS_Directive.html\)](#)
[GBT 26572-2011 Requirements on concentration limits for certain restricted substances in electrical and electronic products \(../Topics/China/GBT_26572-2011_Requirements_on_concentration_limits_for_certain_restricted_substances_in_electrical_and_electronic_products.html\)](#)
[Amended SJT 11364-2014 Marking for the Restricted Use of Hazardous Substances in Electronic and Electrical Products \(2016\) - English Translation \(../Topics/China/SJT_11364-2014_Marking_for_the_Restricted_Use_of_Hazardous_Substances_in_Electronic_and_Electrical_Products_-_English_Translation.html\)](#)
[The Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products \(2016\) - English Translation \(../Topics/China/The_Administrative_Measures_for_the_Restriction_of_the_Use_of_Hazardous_Substances_in_Electrical_and_Electronic_Products_in_China_\(2016\).html\)](#)
[Introduction to Taiwan RoHS \(../Topics/Taiwan/Taiwan_RoHS_regulation_CNS_15663.html\)](#)
[Korea RoHS/ELV/WEEE \(../Topics/Korea/Korea_RoHS_WEEE.html\)](#)

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