



The Restriction of Hazardous Substances Directive 2002/95/EC, (RoHS 1), short for Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment, was adopted in February 2003 by the European Union. The RoHS 2 directive (2011/65/EU) is an evolution of the original directive and became law on 21 July 2011 and took effect 2 January 2013. RoHS 3, or Directive 2015/863, adds four additional restricted substances (phthalates) to the original list of six, as cited under REACH legislation. It also adds Category 11 products. The RoHS3 takes effect 22 Jul 2019.

## Contents

- [1Description](#)
- [2Attachments](#)
- [3External links](#)

## Description

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The RoHS 3 (EU Directive 2015/863) adds Category 11 (catch-all) products and adds four new restricted substances - all phthalates. The four phthalates are mainly used as insulation plasticizers, and are on the REACH list of SVHC (Substances of Very High Concern). The expanded list for RoHS 3 is thus as follows:

- Lead (0.1 %)
- Mercury (0.1 %)
- Cadmium (0.01 %)
- Hexavalent chromium (0.1 %)
- Dibutyl phthalate (DBP) (0.1 %)
- Diisobutyl phthalate (DIBP) (0.1 %)
- Butyl benzyl phthalate (BBP) (0.1 %)
- Polybrominated biphenyls (PBB) (0.1 %)
- Bis(2-ethylhexyl) phthalate (DEHP) (0.1 %)
- Polybrominated diphenyl ethers (PBDE) (0.1 %)