

## RoHS Directive

### TB - 110-B

#### Introduction

What is RoHS Directive?

The RoHS directive is often referred to as “lead-free” legislation. The proper name for RoHS is Directive 2002/95/EC (RoHS1), 2011/65/EU (RoHS2) and 2015/863 (RoHS3), which are Restrictions of Certain Hazardous Substances in Electrical and Electronic Equipment. It is pronounced “Ro-Hoss”.

#### Compliance

When do products have to be compliant with RoHS?

The RoHS Directive went into effect on July 1, 2006. If you are selling products on the EU market, your products must be RoHS compliant.

What hazardous substances are included in RoHS?

- Lead (Pb) : <1000ppm
- Mercury (Hg): <1000ppm
- Cadmium (Cd): <100ppm
- Hexavalent Chromium (Cr (VI)): <1000ppm
- Polybrominated biphenyls (PBBs): <1000ppm
- Polybrominated diphenyl ethers (PBDEs): <1000ppm
  
- Bis (2-Ethylhexyl) phthalate (DEHP): < 1000 ppm
- Benzyl butyl phthalate (BBP): < 1000 ppm
- Dibutyl phthalate (DBP): < 1000 ppm
- Diisobutyl phthalate (DIBP): < 1000 ppm

In order to comply with the EU RoHS legislation, all of these substances must be removed or reduced within maximum permitted concentrations (0.01%) in any products containing electrical or electronic components that will be sold within the European Union.

#### Categories

The RoHS Directive currently applies to products in categories 1-11:

Category 1. Large household appliances: refrigerators, washers, stoves, air conditioners

Category 2. Small household appliances: vacuum cleaners, hair dryers, coffee makers, irons

Category 3. Computing & communications equipment: computers, printers, copiers, phones

Category 4. Consumer electronics: TVs, DVD players, stereos, video cameras

Category 5. Lighting: lamps, lighting fixtures, light bulbs

Category 6. Power tools: drills, saws, nail guns, sprayers, lathes, trimmers, blowers

Category 7. Toys and sports equipment: video games, electric trains, treadmills

Category 8. Medical devices and equipment

Category 9. Control and monitoring equipment

Category 10. Automatic dispensers: vending machines, ATM machines

Category 11. All other electrical and electronic equipment not covered by any of these categories

\*All categories have some exemptions.

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### Summary of RoHS

| RoHS     | RoHS1 (2002/95/EC)   | RoHS2 (2011/65/EU) | RoHS3 (2015/863)  |
|----------|--|--------------------|---|
| Apply    | cat.1-7, 10  |                    | cat.1-11 (all)  |
| Material | <ul style="list-style-type: none"> <li>▪ Lead (Pb): &lt;1000ppm</li> <li>▪ Mercury (Hg): &lt;1000ppm</li> <li>▪ Cadmium (Cd): &lt;100ppm</li> <li>▪ Hexavalent Chromium (Cr (VI)): &lt;1000ppm</li> <li>▪ Polybrominated biphenyls (PBBs): &lt;1000ppm</li> <li>▪ Polybrominated diphenyl ethers (PBDEs): &lt;1000ppm</li> </ul> |                    |   |
|          | N/A  |                    | <ul style="list-style-type: none"> <li>▪ Bis (2-Ethylhexyl) phthalate (DEHP): &lt; 1000 ppm</li> <li>▪ Benzyl butyl phthalate (BBP): &lt; 1000 ppm</li> <li>▪ Dibutyl phthalate (DBP): &lt; 1000 ppm</li> <li>▪ Diisobutyl phthalate (DIBP): &lt; 1000 ppm</li> </ul> |

Does KYDEX® sheet comply with the RoHS Directive?

Yes, the materials listed on the summary chart are not intentionally introduced into KYDEX® product. Therefore, KYDEX® sheet products comply with RoHS1 (2002/95/EC), 2011/65/EU (RoHS 2), and RoHS3 (2015/863).

In the future, further revisions of RoHS may create RoHS 4, 5, and so on as additional exemptions are phased out. Because SEKISUI SPI doesn't utilize any of the restricted substances, KYDEX® sheet will remain compliant with these revisions.

For more information, please visit [www.rohsdirective.com](http://www.rohsdirective.com).

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