

Munich, 20 September 2019

Material Certificate of Conformity (M-CoC)

- **European DIRECTIVE 2011/65/EU (RoHS II), amended by Directive (EU)2015/863**
- **European REACH REGULATION (EC)1907/2006**
- **PULS Position on the Demand for "Halogen-Free Products"**

PULS Sales-number / Model Designation
SLR02

Table 1

European DIRECTIVE 2011/65/EU (RoHS II)

PULS Standard Units listed in table 1 meet regulations regarding the restriction in the use of certain hazardous substances in electrical and electronic equipment within the Directive 2011/65/EU (RoHS II) of the European Parliament and of the Council of 8 June 2011.

The RoHS II conformity of these units is valid since before June 2011. For PULS Standard Units launched after June 2011, full compliance is already in place from the market launch date.

PULS Standard Units listed in table 1 meet the restricted substances referred to in Article 4 (1) and maximum concentration values by weight of homogeneous materials according to Annex II.

Annex II to the Directive 2011/65/EU was amended by DIRECTIVE (EU) 2015/863 of 31 March 2015 of the European Parliament and of the Council. PULS confirms compliance with these additional substance restrictions.

Applications exempted from the restriction in Article 4(1) according to Annex III are:

07a, 07c-I

European REACH Regulation (EC) 1907/2006

As a manufacturer of electronic power supplies, PULS GmbH is a "downstream user" with regards to the Regulation for the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Therefore, PULS is providing information only on non-chemical articles (products). In principle, PULS GmbH is not subject to any obligation to register or to compile material safety data sheets.

PULS hereby confirms that its electronic power supplies comply with the legal obligations regarding Article 33 and the restrictions outlined in Annex XVII of the European REACH Regulation 1907/2006 which came into force on 01.06.2007.

PULS and its suppliers will continuously review the actual ECHA "Candidate List" for additions and updates and act accordingly in compliance with REACH regulations. The actual candidate list is provided on the European Chemicals Agency website at:

<https://echa.europa.eu/candidate-list-table>

The information requirement of REACH Article 33 is met by considering the ECJ-Judgment (Case C-106/14) for calculating the SVHC content in articles.

The SVHC weight calculation is done in recommendation according to the - ECHA Guidance on requirements for substances in articles.

For PULS Standard Units listed in table 1 there is to-date no evidence within our supply chain that any of our products contain articles with a substance which is listed in the ECHA "candidate list" SVHC (Article 59) with a weight of >0.1%.

Demand for "Halogen-Free Products"

Concerning the requirement for halogen-free design of products, PULS GmbH aligns with the ZVEI Positioning Paper detailing the Demand for "Halogen-Free Products" in the Electrical and Electronics Industry (Edition: Oct. 2010).

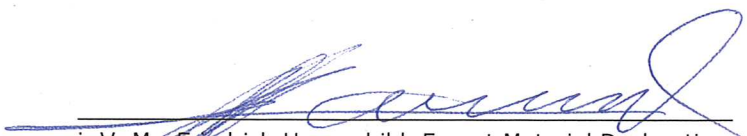
Based on the above-mentioned paper, PULS issued the following "Halogen-free" affirmations regarding materials contained in PULS Standard Units listed in table 1:

- Plastic or chemical materials (e.g. housing components, sliders, connectors, terminals, glue, heat conductive paste, etc.) do not contain halogens.
- All other material shall contain halogens according to IEC 61249-2-21, with max. 1500 ppm halogens in total (max. 900 ppm bromine; max. 900 ppm chlorine) as far as is possible within the state of the art and/or economic viability.

*ZVEI = *German Electrical and Electronic Manufacturers' Association*

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