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Munich, 2 June 2020

## 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
FPT500.241-006-104

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:

06c, 07a, 07c-I

Note: The technical documentation as proof of compliance with the applicable substance restrictions is given in accordance with IEC 63000 (*Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*).

Geschäftsführer: Bernhard Erdl Registergericht München, HRB 64 293 USt-ID: DE129702224

HypoVereinsbank München IBAN: DE04 7002 0270 0002 4014 01 BIC: HYVEDEMM DZ-Bank München IBAN: DE89 7016 0000 0000 0922 16 BIC: GENODEFF701



## 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.

Within PULS supply chain the company received the following REACH Article 33 information that its Standard Units (listed in table 1) contain component(s) with the following SVHC (Article 59) listed substances >0.1% by weight.

Article Group	SVHC listed substances > 0.1 % by weight	EC #	CAS #
Electronic Components	Lead	231-100-4	7439-92-1
From PULS supply chain there is currently no information that material safety data sheets must be made available for units listed in table 1.			

Table 2

PULS will replace SVHC listed substances with alternative solutions as far as is technically and economically feasible.

Note: The technical documentation as proof of compliance with the applicable substance restrictions and SVHC candidate list is given in accordance with IEC 63000 (*Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*).



## **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

Name and address of the responsible manufacturer

PULS GmbH Elektrastraße 6 81925 Munich Germany

Friedrich Haunschild

i. V. Mr. Friedrich Haunschild, Expert Material Declaration name, function, signature\*

\*The M-CoC is valid with electronical signature.