

Munich, 22.11.2022

Material Declaration of Conformity (M-DoC)

- European **DIRECTIVE 2011/65/EU (RoHS II)**
- European **REACH REGULATION (EC)1907/2006**
- U.S. EPA **TSCA Section 6(h) - PBTs**
- European **POP Regulation (EU) 2019/1021**
- **PULS Position on the Demand for "Halogen-Free Products"**

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| PULS Sales-number / Model Designation |
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| ZM5.WALL |
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European **DIRECTIVE 2011/65/EU (RoHS II)**

The declared mounting accessories meets regulations regarding the restriction in the use of certain hazardous substances in electrical and electronic equipment according the **DIRECTIVE 2011/65/EU (RoHS II)** amended by **DIRECTIVE (EU) 2017/2102**.

The RoHS II conformity of the declared mounting accessories has been in effect since the date of market launch and at the earliest when **DIRECTIVE 2011/65/EU** come into force.

The declared mounting accessories meets 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**. PULS confirms compliance with these additional substance restrictions.

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

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|-------------|
| none |
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Note: The technical documentation as proof of compliance with the applicable RoHS **DIRECTIVE 2011/65/EU** is given in accordance with *EN IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances)*.

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 mounting accessories 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 the declared mounting accessories there is to-date no evidence within our supply chain that our product contain articles with a substance which is listed in the ECHA "candidate list" SVHC (Article 59) with a weight of >0.1%.

Note: The technical documentation as proof of compliance with the applicable REACH Regulation 1907/2006 is given in accordance with *EN IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances)*.

U.S. EPA TSCA Section 6(h) - PBTs

The United States Environmental Protection Agency (EPA) requires under the Toxic Substances Control Act (TSCA) Section 6(h) restrictions and information obligation regarding the 5 PBT substances.

For the declared mounting accessories there is to-date no evidence within our supply chain that our mounting accessories contain articles with prohibited PBT substances listed in TSCA Section 6(h).

Note: The technical documentation as proof of compliance with the applicable TSCA Section 6(h) (USA) is given in accordance with *IEC 63000:2018 (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 the declared mounting accessories:

- 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

European POP Regulation (EU) 2019/1021

PULS confirms the Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants (POP).

For the declared mounting accessories there is to-date no evidence within our supply chain that:

- our mounting accessories contains prohibited substances from Annex I of POP regulation.
- there is any use of exemption from control measures acc. Article 4 (see additionally Annex I) of POP regulation.

Note: The technical documentation as proof of compliance with the applicable POP Regulation (EU) 2019/1021 is given in accordance with *EN IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances)*.

Name and address of the responsible manufacturer

**PULS GmbH
Elektrastraße 6
81925 Munich
Germany**

Friedrich Haunschild*

i. V. Friedrich Haunschild, Expert Material Declaration
name, function, electronic signature

**The M-DoC is valid with electronical signature.*