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Art. 33 REACH and RoHS customer information

Dear Sir or Madam,

This is to serve as information for you in keeping with the European regulation on chemicals no. 1907/2006 (REACH), which came into effect on 1 June 2007.

In addition to this, you are given relevant information in keeping with RoHS directive 2011/65/EU the supplement II (Substance restrictions) of which was last extended by directive 2015/863/EU. This directive 2015/863/EU is often referred to as "RoHS 3" and adds the following substances to the list of restricted substances: **Bi (2-ethylhexyl) phthalate (DEHP)**, **butyl benzyl phthalate (BBP)**, **dibutyl phthalate (DBP)** and **di-isobutyl phthalate (DIBP)**.

As per REACH directive, ebm-papst Mulfingen GmbH & Co. KG is a downstream user and supplier of products and is therefore not obliged to comply with compulsory registration.

1. Information as per Art. 33 REACH

We as supplier of products are under obligation to provide information if a so-called candidate substance = substance of very high concern (SVHC) included in the so-called candidate list – is present in an article at a concentration of more than 0.1% weight by weight (REACH-VO, Art. 33). This candidate list is updated and published at regular intervals by the European Chemicals Agency (ECHA). We refer to the version dated 10 June 2022.

Currently, one or more SVHC are present in different components of our products in concentrations of more than 0.1% weight by weight. These are:

- **Lead oxide (CAS no. 1317-36-8)** with SMD diodes on PCBs of EC products.
- **N,N-dimethylacetamide (DMAc) (CAS no. 127-19-5)** with certain insulation materials in AC products.
- **Lead (CAS no. 7439-92-1)** is present in all our products at more than 0.1% w/w.

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- **Diboron trioxide (CAS no. 1303-86-2)** with some electronic parts in EC products
- **4,4'-Isopropylidendiphenol (BPA) (CAS no. 80-05-7)** with certain shrink sleeves
- **N,N-Dimethylformamide (CAS no. 68-12-2)** with PCB laminates FR4
- **Dodecamethylcyclotetrasiloxane D6 (CAS no. 540-97-6)** with certain silicone parts
- **Decamethylcyclotetrasiloxane D5 (CAS no. 541-02-6)** with certain silicone parts
- **Octamethylcyclotetrasiloxane D4 (CAS no. 556-67-2)** with certain silicone parts
- **2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-ol (CAS 71868-10-5)** with certain sensors
- **6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol (DBMC), (CAS No. 119-47-1)** as anti-aging agent in certain rubber part

We shall, of course, keep track of how the duty to disclose information on our products develops in order to meet all our obligations arising from Art. 33 REACH.

Note on SCIP data base: On 5 January 2021, the European Chemical Agency (ECHA) has introduced a database (SCIP database) for which suppliers must provide more detailed information on their products than specified under Article 33 of the REACH Regulation. Wherever necessary, our products have been registered with the SCIP database.

Furthermore our products comply with the specifications of REACH Annexes XIV and XVII.

2. Information as per RoHS

As regards directive 2011/65/EU (Restriction of Hazardous Substances, RoHS) in its currently valid form (incl. RoHS 3), ebm-papst Mulfingen GmbH & Co. KG is not under obligation to disclose any information. However, ebm-papst voluntarily provides relevant information to customers.

When it comes to lead oxide, ebm-papst employs the following uses exempt from lead oxide restrictions as per Annex III RoHS directive:

- **Exemption 7c-I**, lead-containing electric or electronic components in glass or ceramics materials except dielectric ceramics in capacitors, e.g. piezo-electronic devices, or in a glass or ceramics compound, as well as
- **Exemption 7c-II**, lead in dielectric ceramics in capacitors for a nominal voltage of 125 V AC or 250 V DC or above.

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When it comes to lead, ebm-papst employs the following uses exempt from lead restrictions as per Annex III:

- **Exemption 6a, 6a.I** lead in steel;
- **Exemption 6b, 6b.I and 6b.II** lead in aluminum alloys;
- **Exemption 6c**, lead in copper alloys, as well as
- **Exemption 7a**, lead with high-temperature solders.

Please note:

We are monitoring the status of the current renewal applications concerning the applications to be exempt from the restrictions regarding lead. Due to the expected changes, we have already contacted our suppliers. All the information currently available indicates that a delegated directive is likely to be issued in the course of this year. The delegated directive will also define the transitional periods which will apply.

If there should be any relevant change in either the SVHC candidate list or RoHS, we shall let you know about them without delay.

Best regards