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Electrified Powertrain Technology
Electronics

To whom it may concern

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EU REACH PFAS restriction proposal - ZF PFAS Task Force activities update

Dear Customer,

In response to your recent inquiry, ZF Friedrichshafen AG (ZF) can provide the following update regarding ZF activities related to the EU REACH restriction proposal on per- and polyfluoroalkyl (PFAS) substances ([Restriction Proposal](#)).

ZF would also like to confirm that as our suppliers declare the presence of PFAS substances in products delivered to ZF, ZF also declares the presence of PFAS substances in products delivered to our customers for example through information reported in the International Material Data System (IMDS).

In May 2023, ZF formed a PFAS Task Force who evaluated the potential impact of the Restriction Proposal on ZF's products and operations. The "Phase I" work resulted in a key submittal on 20 September 2023 by ZF to the European Chemicals Agency (ECHA) 2023 regarding the PFAS Restriction Proposal and necessary derogation requests.

Chairman of the Supervisory Board: Dr. Rolf Breidenbach
Board of Management: Dr. Holger Klein (CEO),
Dr. Lea Corzilius, Michael Frick, Dr. Peter Holdmann,
Prof. Dr. Peter Laier, Mathias Miedreich
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ZF PFAS Task Force would now like to provide the following update on Phase II activities:

- Continue to monitor ECHA developments, providing input where appropriate;
- Formation of ZF PFAS Workstreams for PFAS critical uses and customer applications to develop counter measures, such as alternative materials, to phase-out PFAS for new developments/critical uses with partners (suppliers and customers) as follows:
 - ✓ Sealings - dynamic & static
 - ✓ Coatings & finishings - metal parts
 - ✓ Oils & Lubricants
 - ✓ Electronic Components
 - ✓ Electrical Components
 - ✓ Plastic Components
 - ✓ Wire Harnesses
 - ✓ Vent Membranes and
 - ✓ Igniter Pyrotechnics

Participation and alignment of ZF's PFAS Workstream Leads with the European Automobile Manufacturer's Association (ACEA)/ European Association of Automotive Suppliers (CLEPA) PFAS Expert Group "Main Domains (use of PFAS)" such as the following:

- ✓ Electrical and Electronic components and control units
- ✓ High Performance Lubricants
- ✓ Membranes & Filters
- ✓ Low friction (materials & coatings)
- ✓ Sealings & Gaskets

ZF PFAS Task Force will continue to monitor the progress of the Restriction Proposal at ECHA and of the ZF PFAS Workstreams and ACEA/ CLEPA PFAS Expert Group Main Domains. ZF anticipates that we will be able to provide an update to our customers on these activities in the Fall 2024 and look forward to working together with you on this important topic.

Latest status based on today's knowledge for products from our **Portfolio Switches & Sensing Solution**:

- **DB series:** PFAS not intentionally added. Switches are free from PFAS.
- **D4 series:** PFAS containing due to actuator has Teflon coating. Product can therefore not be claimed as PFAS-free. New Teflon-free component in evaluation. Result expected for Q2/2025.
- **DC series:** PFAS is not intentionally added. During production of the sealing gasket release agent is used which contains PFAS. Supplier will change the release agent; test results should be available by Q2/2025. Until then, we cannot confirm that ZF DC switches are free from PFAS.
- **Other switch series:** Currently no further details available. In case of specific requests please ask your known ZF contact.
- **Remark:** Please consider that all given information is valid for the ZF switches without wire harness!

Best regards

ZF Group
Electrified Powertrain Technology
Product Line Electronics

This letter is done automatically and valid without signature.