

to whom it may concern

The European directive 2000/53/CE (ELV, End of Life Vehicles) aims at reducing waste from end-of-life vehicles.

The products you purchase from marco Systemanalyse und Entwicklung GmbH operate on the basis of piezoelectric components. The functionality of these components is based on leaded compounds.

The European Commission Decision 2002/525/EC from 2002-06-27 exempts electrical components which contain lead in a glass or ceramic matrix compound from the prohibition that lead is subject to (refer to (3) in 2002/525/EC).

Furthermore, according to Commission Directive 2013/28/EU of 17 May 2013, amending Annex II to the ELV directive 2000/53/EC, under 10 (a) the use of lead in a glass or ceramic matrix compound such as e.g. the lead zirconate titanate (PZT) in ultrasonic sensors is permitted for an unlimited period of time.

The technical irreplaceability of lead-based piezoceramics has been demonstrated in several studies.

In addition, the Annex to the ELV directive stipulates that dismantling is required if an amount of 60 g of piezoceramic material per vehicle is exceeded. marco ultrasonic sensors do not contain such amounts of the material in question.

The GADSL (Global Automotive Declarable Substance List) and the IMDS (International Material Data System) refer to the ELV directive 2000/53/EC and to EC regulation 1272/2008, classification, labelling and packaging of substances (CLP) for lead titanium zirconium oxide.

The CLP regulation amends and is valid in conjunction with the REACH directive 1907/2006. Please refer to our REACH declaration (document doc:P/reach/doc/001).

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