Declaration of non use of

Per- and polyfluoroalkyl substances (PFAS) of concern

The family of per- and polyfluoroalkyl substances (PFAS) contains more than 4,000 compounds. The overwhelming majority of these PFAS, especially those which are considered to be a concern, including raw materials which may contain these PFAS, are not used at all in Siegwerk products. Amongst these, those perfluorocarbons of most concern:

- **Perfluorooctane sulfonates (PFOS),** \( \text{C}_8\text{F}_{17}\text{SO}_2\text{X} \) (\( \text{X} = \text{OH}, \text{Metal salt (O-M+), halide, amide and other derivatives including polymers} \))

- **Perfluorocarboxylic acids (PFCA) and their salts,** such as Perfluorooctanoic acid (PFOA, \( \text{C}_7\text{F}_{15}\text{COOH} \)), Perfluorononanoic acid (PFNA, \( \text{C}_8\text{F}_{17}\text{COOH} \)), Perfluorodecanoic acid (PFDA, \( \text{C}_9\text{F}_{19}\text{COOH} \)) and their salts (perfluorooctanoates, perfluorononanoates, perfluorodecanoates)

- **Precursors of the above ("fluorotelomers")**

- **Fluorotelomeralcohols (FTOH),** i.e. 8:2 FTOH (=\( \text{C}_8\text{F}_{17}\text{CH}_2\text{CH}_2\text{OH} \))

However, the presence of potential traces of these substances in Siegwerk products originating from raw material impurities or as adventitious contaminants cannot be excluded. We proactively monitor and/or retrieve supplier data on impurities in raw materials likely to contain traces of toxicological and ecotoxicological concern. We can assure you that, according to the present scientific knowledge, potential traces of perfluorocarbons of concern in our products, if any, are well below 0.1%.

Please note that Polytetrafluoroethylene (PTFE, CAS 9002-84-0) may be used as wax compound in certain solvent based, water based, conventional offset or UV/EB curing inks and varnishes in order to improve scratch resistance.

The safe use of PTFE in inks is safeguarded due to its polymeric nature and high molecular weight, leading to a very minute migration potential. The polymer is toxicologically evaluated and listed in Part A of the Swiss (EDI) “Ordinance on Materials and Articles Intended to Come in Contact with Foodstuffs”, without any specific restriction. An OML of 60 mg/kg is applicable.

Since July 4, 2020, the EU POP Regulation (Regulation (EU) 2019/1021 on persistent organic pollutants) sets a general limit for PFOA (perfluorooctanoic acid, CAS 335-67-1) including its salts to 25 ppb. All our raw materials in Europe comply with this limit.

For any formulation manufactured outside of Europe, Siegwerk is working towards implementing a change to these POP-compliant PTFE grades as soon as possible.
Additionally, it should be mentioned that as of July 1, 2020, Denmark has banned PFAS chemicals (including PTFE) in paper and board food packaging. Order No. 681 of May 25, 2020, prohibits the use of such substances unless a functional barrier prevents migration into the food.

Please contact your technical support for any PTFE-related questions.