

STATEMENT

Per- and polyfluoroalkylfluoroalkyl substances (PFAS) PFCA (PFOA, PFNA) PFSA (PFOS, PFHxS)

Per- and polyfluoroalkylfluoroalkyl substances (PFAS) are an extremely complex group, whose common feature is to have a carbon chain of variable length, on which all or a large part of the hydrogen atoms have been replaced by fluorine atoms.

PFAS can be classified into two categories:

- **PFCA with a carboxylic function:** Perfluoroalkyl compounds containing a carboxylic function at the end of the carbon chain, like PFOA, PFNA
- **PFSA with a sulphonate function:** Perfluoroalkyl compounds containing a sulphonate function at the end of the carbon chain, like PFOS, PFHxS

PFAS substances are synthetically produced chemicals that repel water and oil. For this reason, they can be used as coatings for food paper and packaging as well as in numerous other products.

Among PFAS, the following ones are suspected to be carcinogenic and endocrine disruptor substances:

- **PFOA (perfluorooctanoic acid, CAS No 335-67-1)**
- **PFNA (perfluorononanoic acid, CAS No 375-95-1)**
- **PFOS (perfluorooctanesulfonic acid, CAS No 1763-23-1)**
- **PFHxS (perfluorohexanesulfonic acid, CAS No 355-46-4)**

PFOA, PFNA from PFCA family, PFOS, PFHxS from PFSA family and other per- and polyfluoroalkyl compound are not intentionally added for technical purposes:

- In Smurfit Kappa paper and solid board mills during our paper and solid board process,
- In Smurfit Kappa corrugated plants apart from SK Siemco – France, for which situation must be checked with local sales contact.

Several analyses on targeted PFAS, did not show their presence in our papers and corrugated boards above detection limits.

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