

TOPIC: Limitation & Restriction of PFOA & PFOS in textiles

REF: TT/ Jan 2018/ WK 1

**What is PFOA & PFOS?**

Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonate (PFOS) also known as C8 and perfluorooctanoate is a synthetic perfluorinated carboxylic acid and fluorosurfactant.

Due to widespread use, long-chain PFC's including perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) have been detected globally in the environment, wildlife and humans.

PFOA and PFOS do not break down in the environment. They have been shown to be persistent in the environment and have long elimination half-life in wildlife and in humans

Therefore, the European Union's Directive has charged the commission to keep under review the ongoing risk assessment activities and the availability of safer alternative substances or technologies related to uses of PFOA and related substances.

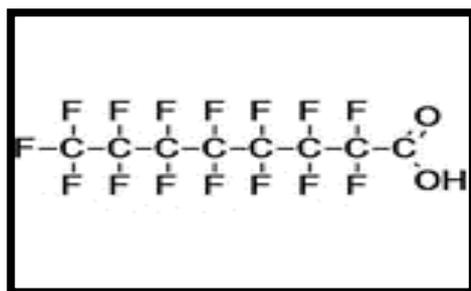
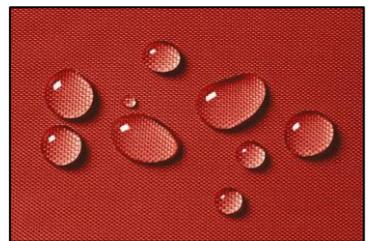


Fig 1.1: PFOA

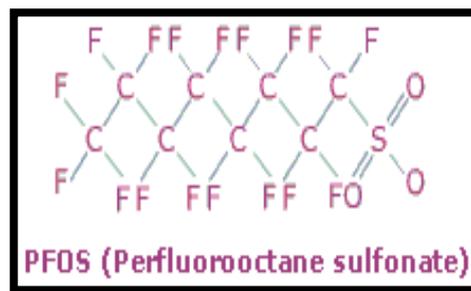


Fig 1.2: PFOS



**Summary of PFOS and PFOA requirements:**

Summary of PFOA & PFOS Requirements	
*Limits / Restriction	EU regulation for PFOS: $\leq 1 \mu\text{g}/\text{m}^2$ of the coated material/textile Buyer's requirement for PFOA: 1 mg/kg
Characteristics / Toxicity	Persistent, bio-accumulative and toxic
Processes	Oil/water and water repellent finishes on textiles

\*Limits mentioned here are typical. Each Buyer may have own limits

**Reference:** Ecological considerations, parameters and testing for the textile industry by Texan lab-2014

Link: <http://www.texanlab.com/documents/downloads/15.pdf>

**Wishing you a great week ahead!**

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