



POPs Chemicals

Perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF)

CAS No. 1763-23-1 (PFOS)

CAS No. 307-35-7 (PFOSF)

HS Code: 2904 90

Full Name: Perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF)

Trade Name: PFOS; FC-95

Synonyms: heptadecafluoro-1-octane sulfonic acid; heptadecafluorooctane sulfonic acid; perfluorooctane sulfonate;

Example of salts: potassium perfluorooctane sulfonate; lithium perfluorooctane sulfonate; ammonium perfluorooctane sulfonate; diethanolammonium perfluorooctane sulfonate; tetraethylammonium perfluorooctane sulfonate; didecyltrimethylammonium perfluorooctane sulfonate.

Uses:

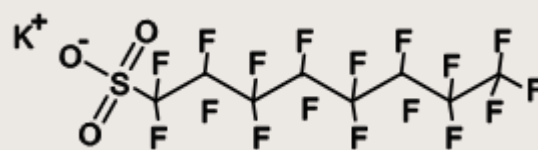
Historically, PFOS has been used for a variety of products due to its surface-active properties, surface resistance/repellency to oil, water, grease or soil. PFOS is both intentionally produced and formed by degradation from a large group of related substances, referred to as PFOS-related substances. Intentional uses of PFOS can be found in electric and electronic parts, fire fighting foam, photo imaging, hydraulic fluids, leather, paper and textiles.

Hazards and Risks to human health and the environment:

High bioaccumulation of PFOS have been found in notable concentrations in Arctic animals, such as polar bear, seal, bald eagle and mink, tropical biota, birds and fish.

Human toxicity with PFOS affects the liver, kidney, thyroid, fecundity, leading to cancer formation.

Due to its long-term persistent accumulation, humans, wildlife and the environment continues to be exposed.



Reference

1. Risk management evaluation on perfluorooctane sulfonate. Stockholm Convention on Persistent Organic Pollutants. 2007. UNEP/POPS/POPRC.3/20/Add.5
2. PubChem. Open Chemistry Database. Perfluorooctanesulfonic Acid. 2005. (https://pubchem.ncbi.nlm.nih.gov/compound/Perfluorooctanesulfonic_acid#section=Top)
3. United States Environmental Protection Agency. EPA. Health Effects Document for Perfluorooctane Sulfonate (PFOS). 2014.



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STOCKHOLM CONVENTION

